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DEVELOPMENT OF A COMPUTER PROGRAM FOR STORE AIRLOADS PREDICTION TECHNIQUE

VOUGHT CORPORATION, SYSTEMS DIVISION P. O. BOX 5907 DALLAS, TEXAS 75222

OCTOBER 1976

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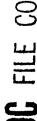


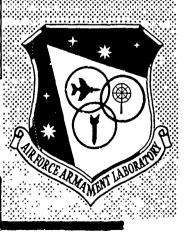
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	This report describes the development of a computer component captive store aerodynamic loads for wing-	r program for predicting six-
	program was developed from a portion of AFATL-TR-7	-mounted single stores. The
	Prediction Technique," that the contractor developed	ed for the Armament Navelon-
	ment and Test Center (ADTC) under Contract No. F080	535-73-C-0070. In addition
	modifications to the prediction technique to incre	ase the angle of attack range
	over which the yawing moment method is applicable a	ere presented. Included in
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ASSTRACT (COMCLUDED)

appendix form is a detailed user's operational guide to the referred included reported here was performed under Contract Mo. F08635-76-C-e-137 for the Air Force Ammament Laboratory.

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PREFACE

This report documents the results of work accomplished by Systems Division, Vought Corporation, P. O. Box 5907, Dallas, Texas 75222, under Contract No. F08635-76-C-0237 with the Air Force Armament Laboratory, Armament Development and Test Center, Eglin Air Force Base, Florida. Lt. Vayl S. Oxford (OLJC) managed the program for the Armament Laboratory. This effort was conducted during the period from May 1976 to October 1976.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER:

WILLIAM F. BROCKMAN, Colonel, USAF

Chief, Munitions Division

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LIST OF SYMBOLS

CLOCAL	Parent aircraft local wing chord, in.
<u>Cx</u> qS	Force coefficient where x can be y, N, A representing side, normal, and axial force, respectively
<u>Cx</u> qSd	Moment coefficient where x can be η , m, ℓ representing yawing, pitching, and rolling moment, respectively
d	Store diameter, ft
HIGH WING	High wing aircraft
$\frac{h_W}{h_f}$	Parameter defining the parent aircraft wing-fuselage relationship
KCPM	Pitching moment correlation factor
KINTC	Factor describing the value of a dependent variable where the independent variable is zero
κ_{Λ_1}	Correlation factor to account for the sweep angle of the parent aircraft wing
KSLOPE	Factor describing the rate of change of a dependent variable as a function of an independent variable
$^{\Delta K}$ SLOPE $_{ ext{INTF}}$	Incremental change in $K_{\mbox{SLOPE}}$ due to aerodynamic interference
L	Store length, in.
Ln	Store nose length, in.
LOW WING	Low wing aircraft
^L LE	Distance from the most forward point of the installed store to the wing leading edge as measured in the wing plan view, in.
PM	Pitching moment, ft. 1b.
PPA.	Plan projected area, in. ²
٩	Free stream dynamic pressure, $\frac{1b}{ft^2}$
S	Store reference area, $\frac{\pi d^2}{4}$, ft ²

LIST OF SYMBOLS (CONCLUDED)

Side Force, 1b. SF

Side projected area, in.² SPA

YM Yawing moment, ft. lb.

Aircraft angle of attack, deg α

Angle of attack where yawing moment slope break occurs, $^{\alpha}\text{BREAK}$

deg

Incremental change in $\alpha_{\mbox{\footnotesize{BREAK}}},$ deg $^{\Delta\alpha} BREAK$

Angle of attack where side force is zero, deg α_{0SF}

βS Store yaw angle, deg

Δ Increment

Aircraft yaw angle, positive nose right, deg ΨA/C

()_a

 $(\)_{\alpha=0}$ Value of () where $\alpha = 0$

SECTION I

INTRODUCTION

This report and user's quide presents a computerized version of the wing-mounted single store airloads prediction methodology found in External Store Airloads Prediction Technique (Reference 1). The prediction technique reported in Reference 1 is somewhat time-consuming and tedious to use in its present form due to the multitude of manual computations required to complete a full six-component airloads solution. The computer routine developed during the current program and reported herein will eliminate most of the engineering effort required to evaluate captive store aerodynamic loads not only for current production aircraft-store configurations but also for new aircraft-weapons designs without resorting to expensive wind tunnel or flight tests. The technique should prove especially valuable for evaluation of new aircraft-weapons design in the preliminary design stages because of the rapid response now available using the computer program for chordwise, spanwise, and vertical variations in store location. Therefore, it permits trade studies to be conducted to minimize installed loads, for example, or to determine a location where the captive loads promote favorable separation.

The yawing moment method of the basic technique has been extended during the current effort to include a broader range of angle of attack than previously presented. The improved yawing moment prediction has been incorporated into the computer program.

The computer routine developed during this program is an accurate representation of the manual technique plus improvements which includes six-component single carriage captive store airloads prediction capabilities for the basic airload as well as the incremental airloads due to aircraft yaw and adjacent store interference as detailed in Reference 1.

SECTION II

COMPUTERIZATION OF STORE AIRLOADS PREDICTION TECHNIQUE

A computer program has been developed that permits rapid prediction of store aerodynamic loads in the captive flow environment for wing-mounted single stores requiring only a knowledge of store isolated aerodynamics, flight conditions, and aircraft-store geometry.

The computer program was designed by considering the general and specific technical requirements outline by the Armament Development and Test Center (ADTC) and molding these requirements into a routine that is simple to input, duplicates the manual technique, and has the minimum possible storage requirements and execution time.

GENERAL REQUIREMENTS

General requirements for the subject effort were to develop a computer program that permits use of the wing-mounted single store portion delineated in AFATL-TR-75-87 (Reference 1) on the CDC 6600 computer at ADTC and, in addition, to extend the yawing moment method to include the full -4 to +12-degree angle-of-attack range included by the other five components. These requirements have been accomplished and are reflected in the computer routine described in this report.

APPROACH TO COMPUTERIZATION

Because the basic technique involves many steps of computation and data hardling, this situation presents many options as to the formulation of a computer program. Some of the pertinent factors considered are:

- 1. Compromise between versatility and ease of input.
- 2. Readability with manual technique (Reference i).
- 3. Output options to meet military and industry needs.
- 4. Effective diagnostics to aid the user.
- 5. Minimize storage requirements and execution time.

The contractor's experience in aircraft/store design and certification programs aided significantly in evaluating the various options and in formulating an effective and efficient computer program.

The overall objectives were considered best satisfied by a computer program consisting of a main controlling routine that calls various subroutines to predict the airload components and provide supporting methodology. The details of the program, including a simplified flow chart schematic, nomenclature, input requirements, output description, and a sample problem, are presented and discussed in Appendix A; however, some of the salient features of the input deck, multiple run capabilities, and output features are discussed here.

Design of the Input Stream

The input data requirements for the computer program include Mach number, store reference length, dimensions of the store, dimensions of the aircraft, location of the store on the aircraft, and the isolated store aerodynamics. Some other parameters required for routine execution, such as store reference area, are calculated internally.

In order to provide the user with the most general and useful output, the predicted airloads are presented as coefficients in slope and intercept form, as discussed later. This approach

allows deletion or aircraft angle of attack, angle of sideslip, and altitude from the input stream, and allows the user to investigate the airloads at any number of flight conditions after obtaining the computer output.

The input data requirements were divided into six basic groups as shown in Figure 1. Each card in the input stream carries one of the descriptive names of Figure 1 in the first few columns of the card. A brief description of each of the six input groups follows:

- TITLE TITLE cards contain alphanumeric descriptive information pertaining to the aircraft-store configuration to be run.

 Up to four TITLE cards may be included.
- STORE STORE cards contain most of the required store geometry and isolated aerodynamic information. Up to five STORE cards can be required for a configuration, STORE1 through STORE5.
- A/C A/C cards contain all parent aircraft geometry requirements.

 Two A/C cards are required for each configuration, A/Cl

 and A/C2.
- AERO The AERO card contains the Mach numbers at which airloads predictions are required. Up to seven Mach numbers may be specified between Mach 0.5 and 2.0.
- OPTION The OPTION card is used to specify the components for which predictions are required. A second field on this card is used to specify the components for which the internally looked-up variables are to be printed.
- SPA, PPA SPA and PPA cards contain segmented store projected areas used in the initial prediction summation procedure.

TITLE - Header information

STORE - Store parameters

A/C - Aircraft geometry

AERO - Mach numbers

OPTION - Computer routine control

SPA, PPA - Store projected areas

Figure 1. Organization of the Input Data

Output Features

The output features include four main sections: input data listing, store airloads predictions, diagnostic messages, and optional print of all variables looked up in the data base. These four categories of output appear in printed form, as shown in Figure 2.

The input data playback is always included in the output listing for user convenience. With the input data attached to the tabulated data, guesswork is eliminated as to what case the predicted loads data applies. In addition, errors in the input deck are readily traceable through the input deck listing.

The captive store airloads predictions follow the input data playback. The basic airload plus the incremental airloads due to aircraft yaw and adjacent store interference are grouped together for each of the six components, side force, yawing moment, normal force, pitching moment, axial force, and rolling moment. The six components are organized and printed in the identical manner found in the table of contents of Volume II, Book 2 of Reference 1. This organization aids in the readability and rapid association of the predicted values with the various sections of the manual technique. The coefficient data are presented in column form for each Mach number requested. After all component coefficients are presented, distance from store center-of-gravity to forward lug, store reference area, and store reference length data are presented. An asterisk to the immediate right of a coefficient indicates that the prediction was made using a parameter from the data base that was out of range or beyond the span of data used to derive the basic technique. An out-of-range warning is issued in the diagnostics section.

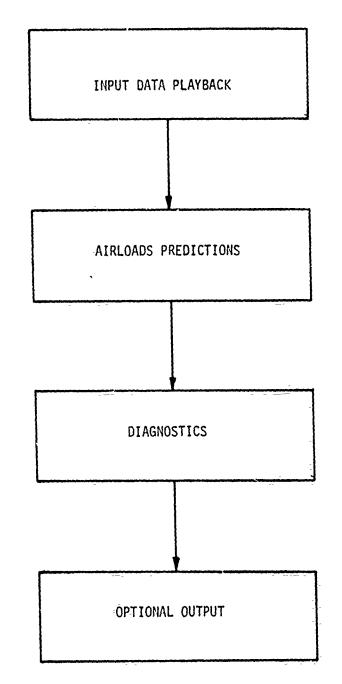


Figure 2. Output Structure

The next section of the output centains diagnostic messages for the benefit of the user. The diagnostics are divided into two types: general and out-of-range warnings. The general diagnostics include messages primarily about input errors. These errors can be either fatal or non-fatal. A non-fatal input error might be that two AERO cards were input and program execution was performed using the last card read. A fatal error might be that the store diameter field was left blank and, therefore, assumed zero. In case of a fatal error, the input data are printed along with the fatal error message(s) and execution is terminated. The out-of-range warnings are designed to inform the user that a prediction has been made with a parameter that is beyond the bounds of the empirical data base used to develop the basic technique. Thus, the prediction has been made with an extrapolated parameter. The warning issued-contains the appropriate figure number from Reference 1 and prints the x, y value used in the prediction from that figure. It is then up to the user to consult the figure and apply his engineering judgement to decide if use of the extrapolated data overly compromises the final predictions.

The final portion of the output stream contains the optional output printed only if requested on the OPTION card. The optional output contains all parameters looked up from the data base for each airload component computed. The optional output will print the figure number and x, y value used in the computation from the data base (most figures in Volume II, Book 2, Reference 1).

Multiple Run Capabilities

Up to five separate aircraft-store configurations can be

run in a single input deck by separating the stacked cases with END CASE cards as defined in Appendix A. If the same aircraft-store combination is involved, then only those input cards affected by the change need to be redefined. Thus, the input is constructed in a manner similar to Namelist input in FORTRAN. A maximum of seven Mach numbers can be run for each of the five cases.

SECTION III

APPLICATION OF COMPUTED RESULTS

The tabulated coefficient results of the computer program present the basic airload (i.e., the captive store airload generated by a zero-yaw pitch excursion of the parent aircraft) and the incremental airloads due to aircraft yaw and adjacent store interference. The incremental airloads due to yaw and interference are predicted as increments to be added to the basic airload. Although the method of combining these effects was detailed in Reference 1, it is repeated here for convenience. Therefore, at a particular Mach number the total captive airload experienced by a store can be obtained from the following generalized coefficient expression:

$$C_{x} = C_{x} + \Delta C_{x} \cdot \beta_{S} + \Delta C_{x}$$
TOTAL BASIC β_{S} INTF

where:

- x Can be y, n, N, M, A, or & representing side force, yawing moment, normal force, pitching moment, axial force, and rolling moment, respectively
- C_X Basic captive airload generated by a zero yaw BASIC pitch excursion of the parent aircraft
- $\Delta^{C}_{X_{\beta}}$ Incremental airload due to aircraft yaw per degree store yaw angle, β_{S}
- β_S Store yaw angle equal to $\Psi_{A/C}$ for a right-wing store installation and - $\Psi_{A/C}$ for a left-wing store installation

 ΔC_{χ} - Incremental airload due to the effect of adjacent INTF store interference.

The generalized coefficient equation presented above, Equation (1), applies to both the slope and intercept predictions made by the computer program.

SECTION IV

MODIFICATION OF THE YAWING MOMENT TECHNIQUE

A typical variation of side force and yawing moment for a wing-mounted single store is shown in Figure 3 as a function of angle of attack. This type of yawing moment variation extends from subsonic flow up through the transonic regime for the experimental data available during the technique development reported in Reference 1. The extreme change in slope of the yawing moment as a function of angle of attack occurs in the 4 to 6-degree angle-of-attack range for most configurations. During the technique development phase of the previous program, the yawing moment prediction technique was developed for the -4 to +6-degree angle-of-attack range. One objective of the current program was to extend the capability of the yawing moment method to apply from -4 to +12 degrees angle-of-attack. This has been accomplished by adding to the previous technique. The previous method has been retained and still applies in the -4 to approximately 6-degree angle-of-attack range.

Extension of the effective angle-of-attack range for the prediction was accomplished by predicting the angle of attack at which the break in yawing moment occurs, and then correlating the yawing moment slope for the 6 to 12-degree range using techniques established in the previous study (Reference 1). The resulting technique for the entire -4 to +12-degree angle-of-attack range consists of a predicted slope and intercept for the lower angle-of-attack range (-4 to 6 degrees) and a predicted slope and intercept for the higher range (6 to 12 degrees). The actual range of applicability for each

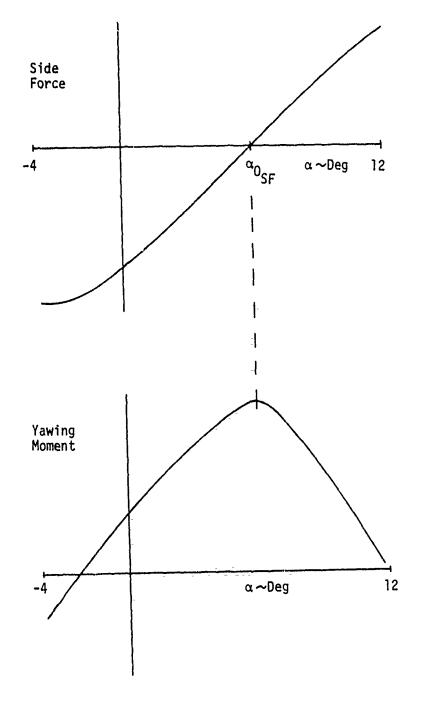


Figure 3. Typical Captive Store Side Force and Yawing Moment

of the equations is determined by the predicted angle of attack at which the yawing moment slope break occurs.

This approach was adopted after studying the available experimental data for high- and low-wing aircraft. It was observed for high-wing aircraft that the yawing moment slope break occurred at the angle of attack where side force was zero, as shown in Figure 3. This loading indicates that the store running load distribution is producing a couple at this angle of attack with maximum yawing moment occurring when side force is zero. This relationship holds true for the available experimental data for high-wing aircraft for Mach numbers from 0.5 to 1.0 at which point the extreme non-linearity disappears from the yawing moment component. For low-wing aircraft, this simple relationship did not hold true; nevertheless, a relationship was discovered between the angle of attack where side force is zero and the angle of attack where the break in yawing moment slope occurs. This relationship varied with Mach number over the range 0.5 to 1.2, above which the extreme non-linearity disappears for the yawing moment component for low-wing aircraft. The relationship between the angles of attack at which the yawing moment slope break occurs and the side force is zero is presented in Figure 4 for both high- and low-wing aircraft.

With this relationship established for high- and low-wing aircraft, a method was needed to apply the relationship to other aircraft. This was accomplished by defining a wing-fuselage height parameter as shown in Figure 5. Armed with this definition, it is possible to determine for all wing-fuselage relationships the Mach number below which the yawing moment slope non-linearity occurs through the following equation:

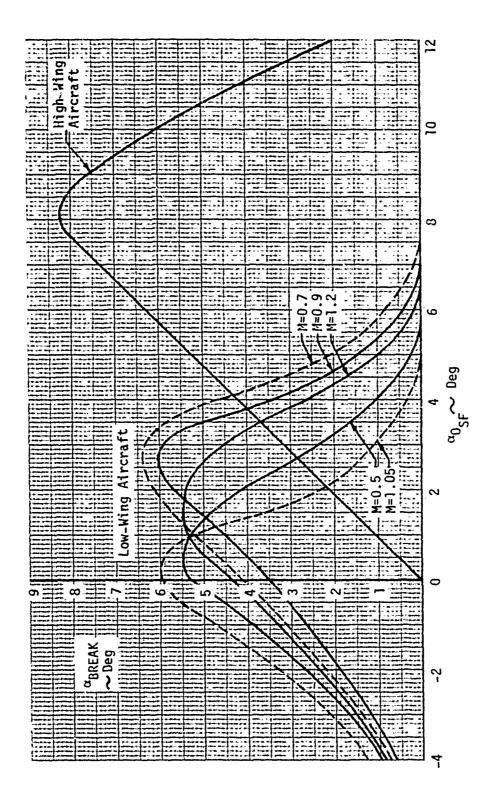
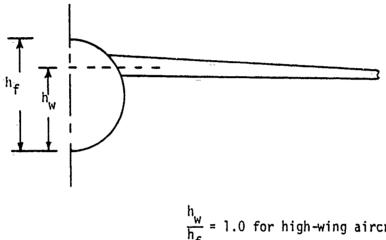


Figure 4. Correlation of $lpha_{BREAK}$ as a function of $lpha_{O_{SF}}$



 $\frac{h_w}{h_f}$ = 1.0 for high-wing aircraft

 $\frac{h_{w}^{2}}{h_{ef}^{2}}$ = 0.0 for low-wing aircraft

Figure 5. Wing-Fuselage Height Definition

$$M_{\text{BREAK}} = 1.2 - 0.2 \frac{h_{\text{W}}}{h_{\text{f}}}$$
 (2)

If the Mach number for which an airloads computation is desired is less than MBREAK, the yawing moment non-linearity exists, LIMIT and the procedure to determine a new yawing moment slope and intercept that applies in the higher angle-of-attack range is required. This procedure is outlined in the following discussion.

In order to determine the angle of attack where the yawing moment slope break occurs, it is necessary to know the angle of attack where side force is zero, $\alpha_{\mbox{OSF}}$. This parameter is determined from the following equation:

$$\alpha_{0_{SF}} = -\frac{\left(\frac{SF}{q}\right)_{\alpha=0}}{\left(\frac{SF}{q}\right)_{\alpha}} \tag{3}$$

where:

 $\left(\frac{SF}{q}\right)_{\alpha=0}^{-}$ - Basic side force intercept predicted from Reference 1 for the Mach number of interest, ft².

 $\frac{\left(\frac{SF}{q\bullet}\right)}{1} \quad \text{- Basic side force slope predicted from Reference}$ 1 for the Mach number of interest, $\frac{ft^2}{deg}$.

Knowing $\alpha_{0_{SF}}$ from Equation (3), determine from Figure 4:

Then for the general case,

$$\alpha_{\text{BREAK}} = \alpha_{\text{BREAK}} + \frac{h_{\text{W}}}{h_{\text{f}}} (\alpha_{\text{BREAK}} - \alpha_{\text{BREAK}}) + \Delta \alpha_{\text{BREAK}}$$
WING
WING
WING
WING

(4)

where:

 $\frac{h_W}{h_f}$ - Wing-fuselage height parameter. Equal to 1.0 for high-wing aircraft and 0 for low-wing configurations. Other configurations are defined by Figure 5.

 $^{\Delta\alpha}{\rm BREAK}$ - Final correction to $\alpha_{\rm BREAK}$ to account for $\alpha_{\rm OSF}$ prediction tolerances (Figure 6), deg.

The preceding equation for α_{BREAK} determines the angle of attack at which the break in yawing moment slope occurs. For angles of attack less than α_{BREAK} , the yawing moment slope and intercept prediction technique presented in Reference 1 is applicable. For angles of attack greater than α_{BREAK} , the following equations predict the applicable slope and intercept:

Yawing moment slope prediction for $\alpha > \alpha_{BREAK}$: (see Figure 9)

$$\left(\frac{\text{YM}}{\text{q}}\right)_{\alpha_2} = \left[\text{K}_{\text{SLOPE}}\left(\text{C}_{\text{LOCAL}}\text{K}_{\Lambda_1}\right) + \text{K}_{\text{INTC}}\right] \text{Sd} + \frac{h_W}{h_f} \Delta \text{K}_{\text{SLOPE}}_{\text{INTF}}$$
 (5)

where:

K_{SLOPE} - Variation in $C_{\eta_{_{_{3}}}}$ as a function of $C_{LOCAL}K_{\Lambda_{_{1}}}$, Figure 7, $\frac{1}{\text{in. deg}}$.

 $c_{ extsf{LOCAL}}$ - Local wing chord of the parent aircraft at the location of the subject store, in.

 K_{Λ_1} - Wing sweep correction factor, $\frac{\sin \Lambda}{\sin 45^\circ}$, where Λ is the wing quarter-chord sweep angle, in degrees, of the parent aircraft.

 K_{INTC} - Value of $C_{\eta_{\alpha}}$ where $C_{LOCAL}K_{\Lambda_{1}} = 0$, Figure 7, $\frac{1}{\deg}$

S - Store reference area, $\frac{\pi d^2}{4}$, ft²

d - Store diameter, ft

 $\frac{h_{w}}{h_{f}}$ - Wing-fuselage height relationship, previously defined (Figure 5)

- Incremental change in yawing moment slope due to the interference effect of the fuselage for high wing aircraft (Figure 8), $\frac{ft^3}{deg}$.

Yawing moment intercept for $\alpha > \alpha_{BREAK}$: (see Figure 9)

$$\left(\frac{\text{YM}}{\text{q}}\right)_{\alpha=0_2} = \left[\left(\frac{\text{YM}}{\text{q}}\right)_{\alpha_1} - \left(\frac{\text{YM}}{\text{q}}\right)_{\alpha_2}\right] \alpha_{\text{BREAK}} + \left(\frac{\text{YM}}{\text{q}}\right)_{\alpha=0_1}$$
 (6)

where:

 $\left(\frac{\text{YM}}{q}\right)_{\alpha_2}$ - Variation of yawing moment with angle of attack for $\alpha > \alpha_{BREAK}$ as predicted by Equation (5) defined above, $\frac{ft^3}{deq}$

^αBREAK - Angle of attack where the yawing moment slope break occurs, Equation (4), deg

 $\left(\frac{\text{YM}}{\text{q}}\right)_{\alpha=0}^{-1}$ - Value of yawing moment at $\alpha=0$ for $\alpha<\alpha_{\text{BREAK}}$ as predicted by Reference 1 basic airload, ft³.

The derivation of $\left(\frac{YM}{q}\right)_{\alpha=0}$, Equation (6), can be easily understood by referring to Figure 9 from which the following expressions can be derived:

Curve 1: Applies if $\frac{\text{FIN SPA}}{\text{Where FIN refers to the store WING for case 1 stores}} > 5.0$, of Reference 1.

Curve 2: Applies if $\ell_{LE} > 82.0$ in. Curve 3: Applies for all other configurations.

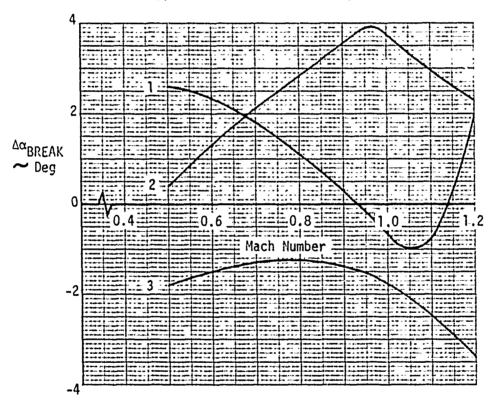
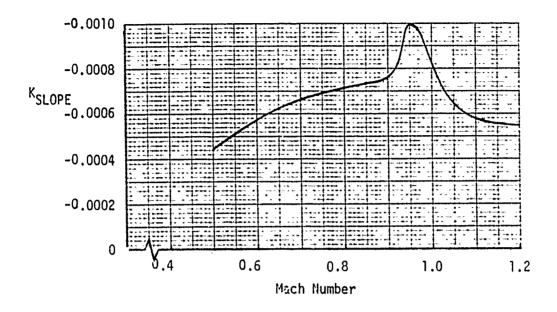


Figure 6. Variation of $\Delta\alpha_{\mbox{\footnotesize{BREAK}}}$ with Mach Number



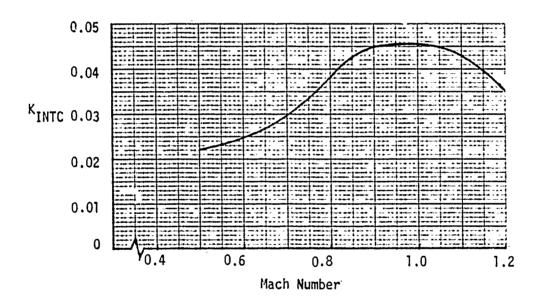
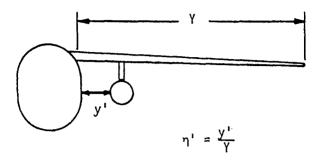


Figure 7. Yawing Moment Modification Parameters - $K_{\mbox{SLOPE}}$ and $K_{\mbox{INTC}}$



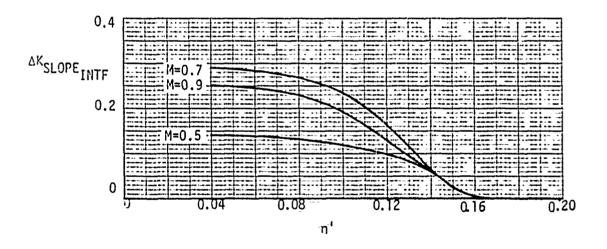


Figure 8. Fuselage Interference Correction - ΔK_{SLOPE}_{INTF}

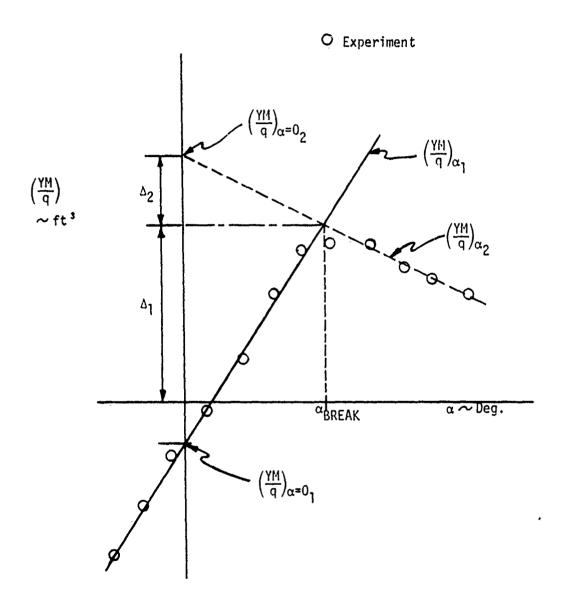


Figure 9. Guide to Derivation of $(\frac{YM}{q})_{\alpha=0}$

$$\Delta_1 = \left(\frac{YM}{q}\right)_{\alpha_1} \cdot \alpha_{BREAK} + \left(\frac{YM}{q}\right)_{\alpha=0_1}$$
(7)

$$\Delta_2 = -\left(\frac{YM}{q}\right)_{\alpha_2} \cdot \alpha_{BREAK} \tag{8}$$

Then,

$$\left(\frac{\gamma M}{q}\right)_{\alpha=0_2} = \Delta_1 + \Delta_2 \tag{9}$$

Hence, the sum represented by Equation (9) yields the results presented in Equation (6) for $\left(\frac{YM}{q}\right)_{\alpha=0}$.

The yawing moment prediction method presented in Reference 1 provides a predicted yawing moment slope and intercept for the angle-of-attack range $-4^{\circ} \leq \alpha \leq \alpha_{BREAK}$. Equations (5) and (6) presented here predict yawing moment slope and intercept, respectively, for the range $\alpha_{BREAK} \leq \alpha \leq 12^{\circ}$. Therefore, a combination of the two techniques yields a yawing moment prediction method that is valid for the -4° to +12° angle-of-attack range as required. This extension to the technique of Reference 1 has been incorporated in the computer program, and results from the program reflect the combination of these two techniques for the applicable Mach numbers.

The figures required to predict the yawing moment slope and intercept for angles of attack greater than α_{BREAK} have been presented in this report as Figures 4, 6, 7, and 8. The figure numbers in the manual technique (Reference 1) range from 1 to 909. In order to incorporate Figures 4, 6, 7, and 8 presented here into the digital data base for the computer routing, they were renumbered beginning with Figure 910 as follows:

DIGITAL DATA BASE FIGURE NUMBER

Figure 4 910 (Low-Wing)

911 (High-Wing)

Figure 6 915

Figure 7 912 (K_{SLOPE})

913 (K_{INTC})

Figure 8 914 (ΔK_{SLOPE}_{INTF})

SECTION V

EXRORS IN THE MANUAL TECHNIQUE

Ouring the computer program development phase, several errors were discovered in the manual technique reported in Reference 1. These errors were primarily plotting errors affecting four figures in Volume II, Rook 2, of Reference 1. These plotting errors involve Figures 26, 49, 53, and 59. The ordinate scale for Figure 53(a) and (b) should be negative instead of the positive scale shown. Figures 26, 49, and 59 are misplotted or poorly faired. The correct values for these three figures are presented in digital form, as used by the computer routine in Table 1.

Besides the plotting errors, one typographical error affecting the equation for $\Delta\left(\frac{PM}{q}\right)_{\alpha=0}$ on page 275 of Volume II, Book 2, of Reference 1 was found. The last factor appearing on the right side of this equation should read as follows:

The definitions of $K_{\rm INTC_2}$ and $K_{\rm SLOPE_2}$ which follow on the same page should also contain this factor.

It is suggested that these corrections be noted in copies of Reference 1 to avoid further misuse.

Table 1. CORRECTIONS TO THE DATA BASE OF VOLUME II, BOOK 2 OF REFERENCE 1

	Figure 26	<u>Figur</u>	e 49	Figur	<u>e 59</u>
X	Υ	X	Y	Χ	Υ
0.0	0.0	0.0	0.0	0.0	0.16
0.1	0.0	0.375	0.0	50.0	0.187
0.2	0.0	0.390	0.52	100.0	0.227
0.3	0.0	0.40	0.77	150.0	0.288
0.4	-1.0x10 ⁻⁶	0.41	0.93	200.0	0.380
0.5	-9.0x10 ⁻⁶	0.42	1.02	225.0	0.430
0.6	-1.1x10 ⁻⁵	0.45	1.20	250.0	0.445
0.7	-1.9x10 ⁻⁵	0.475	1.29	275.0	0.448
0.8	-3.3x10 ⁻⁵	0.50	1.31	300.0	0.440
0.9	-8.0x10 ⁻⁵	0.65	1.40	350.0	0.414
1.0	-1.25x10 ⁻⁴			400.0	ຫ.378
1.1	-1.6x10 ⁻⁴			450.0	0.345
1.2	-1.84×10^{-4}			500.0	0.325
1.3	-2.04×10^{-4}				
1.4	$-2.2x10^{-4}$				
1.5	-2.31×10^{-4}				
1.6	-2.43×10^{-4}				

X is the independent variable

Y is the dependent variable

SECTION VI

CONCLUSIONS AND RECOMMENDATIONS

A computer routine has been developed during this study that provides a rapid method to determine six-component captive store airloads for wing-mounted single carriage stores. The technique represented by the computer routine offers installed store airloads over a broad range of flight conditions which include Mach numbers from 0.5 to 2.0, angles of attack from -4 to +12 degrees, and aircraft yaw angles from -8 to +8 degrees. Airloads coefficients predicted by the routine are an accurate representation of the single carriage method reported in AFATL-TR-75-87 (Reference 1). As such, the computer routine allows inexpensive and rapid computation of installed store aerodynamic loads with accuracy sufficient for preliminary design and evaluation purposes. Thus, the need for some wind tunnel and flight tests may be eliminated.

Modifications of the yawing moment component to extend its usefulness above six degrees angle of attack were completed and incorporated into the computer routine.

It is recommended that predictions from the method contained in the computer routine be correlated with experimental data for aircraft-store configurations not used in the method's derivation. If significant differences are observed for specific configurations, the technique should be updated to be applicable to new configurations. In addition, it is recommended that the remainder of the technique in Reference 1, captive airloads for multiple carriage stores, be developed into a computerized version for Air Force and industry use.

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APPENDIX A
USER'S GUIDE

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OPERATIONAL GUIDE

Following is a list of comments which may be helpful to the user until he becomes familiar with the operation of this routine:

- Multiple cases can be run by separating the cases with "END CASE" cards.
- 2. A maximum of five cases can be run at one time.
- 3. A maximum of seven Mach numbers can be run for each case.
- 4. Data cards that are unchanged from case N to case N+1 need not be included in the case N+1 input deck.
- 5. Four title cards should be used.
- 6. Input fields for data that are not required for a particular case should be left blank. (For example, if there are no interfering stores, the input fields describing interfering store parameters should be left blank.)
- 7. Title cards must be ordered as desired in the output.
- 8. Cards other than title cards can appear in any order desired.
- 9. If "x" or "+" is not input in column 10 of STORE3 card, then the planform area of the wing/tail surface as defined for computation of Reference 2 must be input, as well as the sum of all wing and tail planform areas.
- 10. For type 1 stores, "wing" refers to the lifting surfaces.
 For type 2 stores, "wing" refers to the forward set of
 lifting surfaces and "tail" to the aft set.

- 11. For aircraft with fuselage side inlets, the minimum distance from the store to the inlet as measured in the aircraft yz plane must be input. For aircraft with centerline inlets, a value of "400." should be input in columns 31-40 of the A/Cl card.
- 12. Each store segment containing SPA or PPA can have more than one area type in it. (For example, 1N, 2N, 2B, 3B, 4B, 4W may appear to describe a particular store where N, B, W represent nose, body, and wing SPA or PPA, respectively.)
- 13. The captive airloads for any components listed in columns
 41-60 of the OPTION card will be calculated automatically.
- 14. An asterisk appears immediately following any predicted slope or intercept in the output listing which was calculated using extrapolated or out-of-range data from the data base (graphs of Reference 1).
- 15. The maximum number of SPA or PPA cards that can be input is 40.
- 16. The maximum number of store segments allowed is 35.
- 17. If the Side Projected Area is not equal to the Plan Projected Area for each segment type:
 - a. For every SPA card there should be a corresponding PPA card, even if the Plan Projected Area for that segment type is zero.
 - b. For every PPA card there should be a corresponding SPA card, even if the Side Projected Area for that segment type is zero.

- 18. For unfinned stores, a value of "90" must be input in columns 41-50 of the STORE2 card.
- 19. Mach numbers may be input in any order on the AERO card.
- 20. If the optional data base look-up printout for Figures 4 and 5 of Reference 1 are desired, "IP" must be input within columns 41-60 of the OPTION card.

FORTRAN NOMENCLATURE

In an effort to provide the user the most convenient definition of FORTRAN symbols, the definitions of these symbols appear as comments in the listing of the computer routine. (See "Routine Listing" portion of this appendix.) By presenting the definitions in this manner, the location of each variable is identified without the preparation of a special section within this manual, thereby maximizing its simplicity.

INPUT INSTRUCTIONS

This section provides a detailed description of the parameters required as input to the routine.

CARD	PARAMETER (FORTKAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
TITLE		11-80/7A10	General information describing the aircraft-store configuration to be investigated. There should be four "TITLE" cards.
STORE1	STORE TYPE (ICASE)	10/11	Identifies the type of store (Case 1, 2, or 3) to be studied. Case 1 ~ store with lifting surfaces at aft end. Case 2 ~ store with both forward and aft lifting surfaces. Case 3 ~ unfinned store.
	K _N . (AKN)	11-20/F10.0	Ratio of lift of the store nose to lift of wing alone; required for Case 1 stores. (See line 80, Table 1, page 38 of Reference 2.)
	K _B (₩) (AKBW)	21-30/F10.0	Ratio of the body lift in the presence of the wing to lift of the wing alone; required for Case 1 stores. (See line 48, Table 1, page 38 of Reference 2.)
	K _W (B) (AKWB)	31-40/F10.0	Ratio of lift of the wing in the presence of the body to lift of the wing alone; required for Case 1 stores. (See line 47, Table 1, page 38 of Reference 2.)
	K _{N/B} (AKNB)	41-50/F10.0	Required input for Case 2 stores. (See page 29 of Reference 1 for description.)
\	K _{T/B} (AKTB)	51-60/F10.0	Required input for Case 2 stores. (See page 29 of Reference 1 for description.)

CARD	PARAMETER (FORTRAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
STORE1	K W/B (AKWUT)	61-70/F10.0	Required input for Case 2 stores. (See page 30 of Reference 1 for description.)
\	KINTF (AKINTF)	71-80/F10.0	Required input for Case 2 stores. (See page 30 of Reference 1 for description.)
STORE2	Store Length,L (STOREL)	11-20/F10.0	Length of the subject store, in.
	Store Diameter,d (STORED)	21-30/F10.0	Diameter of the subject store, in.
	Nose Length,L _n (ANOSEL)	31-40/F10.0	Nose length of the subject store, in., as defined by line 41, Table 1, page 38 of Reference 2.
	Wing/Tail Leading Edge Sweep Angle, ^A FIN (ALEFIN)		Sweep angle of the wing leading edge (Case 1 store) or Tail leading edge (Case 2 store) of the subject store, degrees. (A value of "90." should be input for unfinned stores.)
	Isolated Store Lift Curve Slope,	51-60/F10.0	Lift curve slope, $C_{L_{\alpha}}$, of the
	CL _a (CLAISO)		subject store in freestream flow. Obtained from experimenal data or by using the method presented in Reference 2.
	Freestream Zero- Lift Drag Coef-	61-70/F10.0	The $c_{D_{\widehat{\boldsymbol{0}}}}$ of the subject store in
	ficient, CDO		freestream flow. Obtained from experimental data or by using
	(CDOISO)		the method presented in Reference 3.
ļ	Store C.G. (XCG)	71-80/F10.0	The distance from the subject store nose to its center of gravity, in.

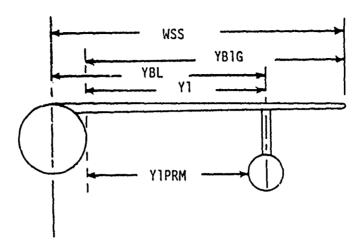
CARD	PARAMETER (FORTRAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
STORE3	+,x,1 or 2 (ICONFG)	10/A1	Control parameter describing symmetry of store wing/tail. "+" ~ used if wing/tail are in the plus orientation when subject store is in the carriage position. "x" ~ used if wing/tail are in this orientation when the subject store is in the carriage position.
			"l" ~ used if wing/tail are "symmetric" as defined on page 365 of Reference l, but not in "+" or "x" orientation.
			"2" ~ used if wing/tail are "unsymmetric" as defined on page 365 of Reference 1.
	SPA=PPA or Blank (ISYM)	14-20/A7	If the side projected area of each segment is equal to the plan projected area use "SPA=PPA". In this case only SPA cards (as described later) must be input. If the side projected area of each segment is not equal to the plan projected area, these columns should be left blank. Then both SPA and PPA cards must be input. There must be an equal number of SPA and PPA cards.
	Wing Planform Area (WINGPA)	21-30/F10.0	If "1" or "2" is input in column 10 of STORE3 card, the planform area of the wing as used in Reference 2 must be input here, in ² .
•	Tail Planform Area (TAILPA)	31-40/F10.0	For Case 2 stores, if "1" or "2" is input in column 10 of the STORE3 card, the planform area of the tail as used in Reference 2 must be input here, in ² .

CARD	PARAMETER (FORTRAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
STORE3	Sum Planform Area (SUMPA)	41-50/F10.0	If "1" or "2" is input in col- umn 10 of STORE3 card, the sum of all wing and tail planform areas must be input, in ² .
STORE4	Longitudinal Overlap Distance of Outboard In- terfering Store, XINTF (XINTFO)	11-20/F10.0	Distance from the nose of the subject store to the nose of the interfering store as measured along the longitudinal axis of the subject store, in. (Positive if the subject store nose is forward of the interfering store nose.) Required if an interfering store is outboard of the subject store.
	Lateral Separa- tion Distance to Outboard Inter- fering Store, YINTF (YINTFO)	21-30/F10.0	Minimum lateral clearance be- tween the subject store and the interfering store as measured in the planview, in. Required if an interfering store is out- board of the subject store.
	Diameter of Out- board Interfer- ing Store, D _{INTF} (DINTFO)		Diameter of the interfering store, in. Required if an infering store is outboard of the subject store.
	Longitudinal Overlap Distance of Inboard Inter fering Store, X INTF (XINTFI)	41-50/F10.0	Defined the same as "XINTFO". Required if an interfering store is inboard of the subject store.
	Lateral Separa- tion Distance to Inboard In- terfering Store YINTF (YINTFI)	51-60/F10.0	Defined the same as "YINTFO". Required if an interfering store is inboard of the subject store.
	Diameter of In- board Interfer- ing Store, D _{INT} (DINTFI)		Defined the same as "DINTFO". Required if an in- terfering store is inboard of the subject store.

CARD	PARAMETER (FORTRAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
STORE5	Length of Out- board Interfer- ing Store, L _{INTF} (ALINFO)	11-20/F10.0	Length of the interfering store, in. Required if an interfering store is outboard of the subject store.
	Length of Inboard Interfering Store ^L INTF (ALINFI)		Length of the interfering store, in. Required if an interfering store is inboard of the subject store.
	Lug Spacing (ZPLNSP)	31-40/F10.0	Distance between suspension lugs on subject store, in.
	Store Midlug, ^X ML (SML)	41-50/F10.0	Distance from the subject store nose to the store mid-lug location as measured along the store longitudinal axis, in.
	Segment Length (SEGL)	51-60/F10.0	Constant length segments of the subject store used to de- fine SPA and PPA, in. (user defined).
	y' (Y1PRM)	61-70/F10.0	The minimum distance from the side of the fuselage to the side of the subject store as measured in the planview, in. (see Figure A-1).
AERO	Mach Numbers, M (REALM(*))	11-80/7F10.0	Mach numbers at which captive store airloads are desired $(0.5 \le M \le 2.0)$.
A/C1	Local Chord Length, C _{LOCAL} (CLOCAL)	11-20/F10.0	The aircraft local wing chord at the buttline corresponding to the subject store location, in.
	Pylon Midlug, <u>X</u> C _{ML} (PXDCML)	21-30/F10.0	Mid-lug location (fraction of aircraft local wing chord) of the pylon on which the subject store is carried.
\	Wing Semi-span, b/2 (WSS)	31-40/F10.0	Aircraft wing semi-span, in. (see Figure A-1).

CARD	PARAMETER (FORTRAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
A/C1	Y (YBIG)	41-50/F10.0	Distance from the side of the fuselage to the wing tip measured in the planview, in. (see Figure A-1).
	y Buttline, y _{BL} (YBL)	51-60/F10.0	Distance from aircraft center- line to pylon centerline (i.e., buttline of the pylon), in. (see Figure A-1).
ļ V	y (Y1)	61-70/F10.0	Distance from the side of the fuselage to the pylon center-line, in, (see Figure A-1).
A/C2	Lambda, Λ (ALAMDA)	11-20/F10.0	Quarter chord sweep angle of the parent aircraft wing, deg.
	Pylon Height,Z (ZPH)	21-30/F10.0	Distance from the lower surface of the wing to the bottom of the pylon at the mid-lug point, in.
	Store to Inlet Distance, L INLET (ALINLT(*))	31-40/F10.0	Minimum distance from the side of the store to the fuselage mounted side inlets of the aircraft in the Y-Z plane, in. (see Figure A-1). (A value of "400." should be input for aircraft with centerline inlet.)
	h _w /h _f (HWDHF)	41-50/F10.0	h _w = distance from the bottom of the fuselage to the wing plane, in., at the chord position of the pylon mid-lug. h _f = height of the fuselage, in., at the chord position of the pylon mid-lug. h _w /h _f = 1.0. for a high-wing aircraft and h _w /h _f = 0.0 for a low-wing aircraft.
SPA	Segment Number (NSEG)	14-19/16	Beginning at the store nose, the number associated with the constant length SPA segment.

CARD	PARAMETER FORTRAN SYMBOL)	COLUMN/FORMAT	DESCRIPTION
SPA	Segment Type (NSTYPE)	20/A1	Describes the type of area in each segment. N ~ nose area segment B ~ body area segment W ~ wing area segment T ~ tail area segment
	Area (SPAT)	21-30/F10.0	Side projected area of segment NSEG, in ² .
PPA 	Segment Number (NSEG)	14-19/16	Same as for SPA.
	Segment Type (NSTYPE)	20/A1	Same as for SPA.
	Area (SPAT)	21-30/F10.0	Plan projected area of segment NSEG, in?
OPTION-	SF,NF,YM,PM,AF,RM (INPTOP(*))	11-27/7(A2,1x) Components appearing in these columns will be calculated Choose from 1-6 components and list in any order.
∀ t.	IP,YM,PM,AF,RM, SF,NF (INPGRA(*))	41-60/7(A2,\)	The components appearing in these columns are those for which table look-up data are printed in the output. Any or all of these components may be listed in any order. IP = Initial Prediction.
END CAS	SE		This card separates up to five cases for a single input deck.



HIGH WING WITH CENTERLINE INLET

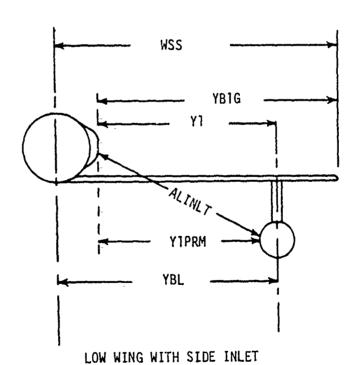


Figure A-1. Input Description

OUTPUT DESCRIPTION

The tabulated output consists of four distinct sections of information. First, a playback of the input data appears followed by the second section containing the predicted captive airloads in coefficient form. Following the predictions, a diagnostics section is included that contains informative statements concerning extrapolated data used in the predictions, as well as descriptions of non-fatal input errors. The final output section contains the values of parameters obtained from the data base used in the computation. This output section is optional. The output is structured in this manner for all cases except when a fatal input error is encountered. In case of a fatal error, the input data are printed along with the fatal error message(s) and execution is terminated.

Figure A-2 presents the typical output arrangement of a successful run, showing the input playback, predicted captive airloads, diagnostic messages, and data base values. Each of the four output sections is discussed in greater detail in the following paragraphs.

- A. Input Data Playback

 A playback of the input data is furnished to provide the user with a convenient check of the input data and for future reference in associating predictions with the corresponding input request.
- B. Captive Airloads Predictions
 The final predicted coefficients for the subject configuration are presented in column form for the

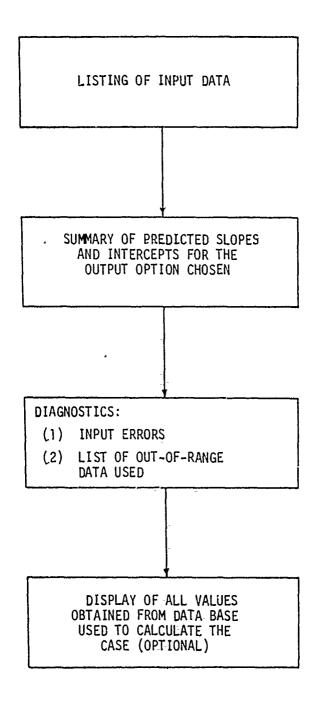


Figure A-2. Schematic of Output

LET'S MARKET BY

Mach numbers requested. The sign convention for the predicted airloads is identical to the single carriage sign convention presented in Volume II, Book I of Reference I. Moments are referenced to the store center of gravity. The coefficients are presented as a basic slope and intercept for each component plus incremental slopes and intercepts due to the effects of aircraft yaw and adjacent store interference.

Whenever extrapolated data from the data base are used in the calculation of a particular coefficient, an asterisk will appear immediately to the right of that coefficient. An exception to this procedure involves out-of-range data from Figures 4 or 5 of Reference 1. Since these figures are used in the initial predictions portion of the computer routine, the flags are not issued. Predictions are flagged only if the out-of-range parameter involves an empirically derived correction from the experimental data base.

C. Diagnostic Messages

Various error messages have been incorporated into the routine to inform the user of any errors, both fatal and non-fatal, that exist in the input stream. In addition, warning messages are included to call attention to less serious mistakes in the input deck

and to inform the user that a prediction has been made with a parameter that is beyond the bounds of the empirical data base used to develop the basic techinque. The out-of-range message applies to those predicted coefficients that are flagged with an asterisk.

D. Optional Output

The presentation of the data base parameters used in calculation of the captive airloads is the last portion of the output. In addition to the "X" and "Y" values from the data base graph, the appropriate figure numbers and line numbers are also presented. This portion of the output is optional and can be supressed by leaving columns 41-60 blank on the option card in the input deck.

The figure numbers appearing in this portion of the output correspond to the figure numbers in Volume II, Book 2 of Reference 1, which forms the digital data base used by the routine.

The line numbers presented here can refer to a variety of situations, depending on the type of graph from which data are obtained. Obviously, if a given graph in Reference 1 has more than one line, some distinction of data lines must be made. If there is only one line on a given graph, it is always labeled line 1.

If the graph consists of several lines, each designating data for different Mach numbers, the lines are distinguished by assigning line numbers in order of ascending Mach numbers. That is, line I will correspond to the lowest Mach number curve present, and the largest line number will correspond to the highest Mach number curve. For example, the data base for Figure 38 in Reference 1 will contain lines 1 through 4. For graphs that contain incremental data due to aircraft yaw, the curve for negative store sideslip (-Bs) is line 1, and the curve for positive store sideslip $(+\beta s)$ is line 2 as in Figure 95 of Reference 1. For graphs containing data describing the incremental load due to adjacent store interference, the curve presenting data for the effect of the outboard interfering store is line 1. Line 2 is comprised of the data concerned with the effect of the inboard interfering store. Figure 55 in Reference 1 illustrates typical curves defining the effect of outboard and inboard interfering stores.

If, as in Figure 48 of Reference 1, there is a graph with both βs and Mach number data, the line numbers increase with ascending Mach number, but there are two sets, one for (+ βs) and one for (- βs). The set for (- βs) will always appear before the set for (+ βs)

in the optional output. So, even though the output shows, for example, two "Figure 48, line 3" data sets, by the definition presented here the first corresponds to the (-\betas) calculation and the second to the (+\betas). The same type of situation can result when both inboard/outboard interference and Mach number data appear on the same graph, as in Figure 56 of Reference 1. In this case, the first set of data printed for a given figure number is for the calculation using the outboard interfering store curve and the second set is for the inboard. Obviously, both sets will appear only when there is an inboard and outboard interfering store for the case being computed.

ROUTINE DESCRIPTION

This section contains a brief description of the function of each portion of the computer routine.

1. BLKRED

BLOCK DATA routine stores values of parameters that do not change during the execution of the program.

2. BLKFIL

BLOCK DATA routine loads the file, identifying the variables with a file number.

3. STORES

External store airloads prediction technique main routine.

STORES is the controlling program which cycles on up to five cases of data.

SUBROUTINE DESCRIPTION

1. CHECKR

CHECKR assigns an input code to each card in the input stream.

It checks for certain variables in which a blank field is valid and also checks for errors in card identification.

2. READIN

This routine reads data according to the format chosen by the input code that is assigned in CHECKR. It also checks fields for valid data and sorts SPA and PPA cards into ascending numerical order.

3. INITAL

INITAL sets up most constants used in the program as well as calculates the initial predictions for side force, normal force, pitching moment, and yawing moment.

4. PRINTR

PRINTR copies the files to output.

5. ERROR

This routine prints to the error file the appropriate message for each input error or warning encountered.

6. LININT

LININT is a linear interpolation scheme that retrieves values in the data base necessary to perform the required airloads computations. In addition, it contains the optional graph printout scheme.

7. TWOD

TWOD linearly interpolates between two graph lines in the data base for a specific independent variable.

8. STOPRT

This routine prints all predictions for the specified Mach numbers containing the calculated output.

9. SIDFRC

SIDFRC calculates the predicted side force basic slope and intercept as well as the increments due to aircraft yaw and adjacent store interference for Mach numbers between 0.5 and 2.0.

10. YAWMOM

YAWMOM calculates the predicted yawing moment basic slope and intercept, as well as the increments due to aircraft yaw and adjacent store interference for Mach numbers between 0.5 and 2.0.

11. NORFRC

NORFRC routine calculates the predicted normal force basic slope and intercept, as well as the increments due to aircraft yaw for Mach numbers between 0.5 and 2.0. In addition, it calculates the incremental normal force slope and intercept due to adjacent store interference for a Mach number of 0.5.

12. NORSB1

This routine calculates the incremental normal force slope and intercept due to adjacent store interference for Mach numbers other than 0.5.

13. PITMOM

PITMOM calculates the predicted pitching moment basic slope and intercept as well as the increments due to aircraft yaw and adjacent store interference for Mach numbers between 0.5 and 2.0.

14. AXIFRC

This routine calculates the predicted axial force basic slope and intercept and the increments due to aircraft yaw and adjacent store interference for Mach numbers between 0.5 and 2.0.

15. ROLMOM

ROLMOM calculates the predicted rolling moment basic slope and intercept and the incremental intercept due to aircraft yaw and adjacent store interference for Mach numbers from 0.5 to 2.0.

16. ALNLOC

This routine looks up a dependent value from the data base assuming the independent values are evenly spaced.

17. BREAKP

BREAKP finds the Mach number break points above and below the subject Mach number for use in the applicable Mach number correction calculation.

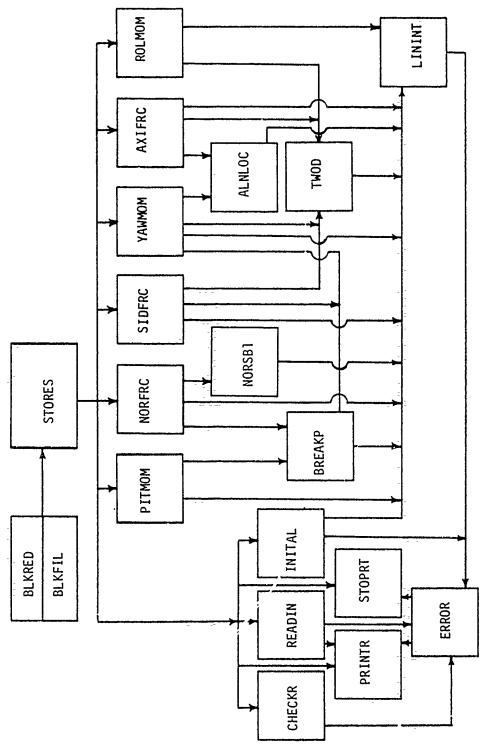


Figure A-3. Computer Routine Structure

SAMPLE CASE

NUMBER						48.5			23.72	2.0																	
FOR CASE N						.064	,	26.52	¥• 3	9	107.64		a														
DATA PLAYBACK						• 0684	!	12.9	25.0	1.4	202.9 136.6 10		YM, PH, RH, I														
	FOR A	DUTBOARD	K ON THE	뱉		45.0		29.3	95.5	1.2	202.3	1.0	SF, NF, AF,														
	S PREDICTION FOR A	7 THE A-7	GALLON TAN	INTERFERENCE	1.29	80.0			30.	6•0	232,38	400															
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	CAFTI	300	PYLO	CENT	1 1.23	226.	+ SP			0.5	103.9	35.0	SF.NF														
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CASE NUMBER = 1	1.40 1.60 2.66	.09359 .10436 .06446 09338 .05153 .11433 .00502 .00493 .00465 .09767 .09378 .09361 .09022 .07793 .07077 023410154701714	6.00	.01007 .00398 .00622 .35089 .35321 .35743 010820033100929 068330429804315 00562 .00376 .00556
ATED DATA	1.20	. 63282 23943 60482 - 1.00298 63129 63129	0.00 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	. 34858 . 34858 . 01234 . 01234 . 00900
VIQUE CALCULATED	06,	. 34097 . 34097 . 0052 . 00324 . 09999	3.01 .03169 .03169 .32454 .47284 .7284 .00901 .00555 .05224	3.4.511 3.4.511 1.0.0.1078 1.0.0.178 1.0.0.787 1.0.0.787 1.0.0.787
PREDICTION TECHNIQUE	FOR A 10130ARD CON THE 15	. 02066 . 32663 . 00552 . 09350 . 08991 . 083376	3.64 02943 01681 01681 01454 00631 00631	50356 34484 60813 60913 60919 60919
CAFTIVE AIRLOADS FREC	E AIRLOADS PREDICTION FOR A LLCN TANK ON THE A-7 OUTBOARD WITH A 300 GALLON TANK ON THE PYLON FOR INTERFERENCE	.08065 .00552 .00552 .09355 .08653 .08265	2.44 .11079 -01508 -017508 -29010 -01454 -01454 -01454 -01454 -01454	
CAFTIVE	CAPTIVE AIRLOAD 3DG GALLCN TANK PYLON WITH A 3D CENTER PYLON FO	(+95) (+85) (-85) (-85) (-85) (-85)	ALPHA BREAK ALPHA BREAK ALPHA BREAK ALFHA GREAK (+3S) (+3S) (-3S) INTERFEPENCE	(SE+3) (SE+3) (SE+3) (SE+3) (SE-3)
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1.40	61765 -1.63305 -01674 -06430 01449 01367	00513 30324 00021 00631 00631	00544 01501 00963 00960
1.26	13232 99607 .C1941 .G2469 08655	.41183 .41189 .600336 .400336 .1000036	016296 01136 01195
÷.	01043 21304 .064574 .004574 07063	.00676 .20404 .00037 .00035 .00032	00760 .02459 01139 02277
FOR A BUTBOARD K OM THE CE .7C	07075 23332 01476 01564 14208 02260	.000398 .15029 .00012 .000884 .000884	00781 .02462 01011 01180
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SAPTIVE ALPLOADS PREDICTION FOR A 330 GALLON TANK ON THE A-7 OUTBOARD PYLON MITH A 500 GALLON TANK ON THE CENTER FYLON FOR INTEKFERINCE .	(+9S) (+3S) (+3S) (-9S) (-9S) (-9S)	(+3S) (+3S) (+3S) (-3S) (-3S) E INTERFERENCE	(+3S) (-3S) (-3S) E INTERFERENCE
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REFERENCE CIMENSIONS

STORE CENTER OF GPAVITY TO FORMARD LUG = 13.00 INCHES STORE GEREROCE AREA = 3.8% FEET**2 STORE REFERENCE LENGTH = 2.21 FEET

CAPTIVE STORE AIRLOADS PREDICTION GEMERAL MISSAGES CALLOW FARLOADS PREDICTION FOR A SALLOW TANK ON THE A-7 OUTBOARD PYLOW HITH A 300 GALLOW TANK ON THE CENTER PILIN FOR INTERFERENCE

DATA

RANGE CAPTIVE AIRLOADS PREDICTION OUT OF CAPTIVE AIRLOADS PREDICTION FOR A 300 GALLOA TANK ON THE A-7 OUTBOARD ATLAN A 300 GALLON TANK ON THE CENTER PYLON FOR INTERFERENCE

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VALUES USED FROM GRAPHS IN CALCULATION OF CAPTIVE AIRLOADS FREDICTIONS 300 GALLON TANK ON THE A-7 OUTBOARD PYLUN HITH A 300 GALLON TAKK ON THE CENTER PYLUN HITH A 300 GALLON TAKK ON THE CENTER PYLUN HITH A 300 GALLON TAKK ON THE

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VALUES USED FROM GRAPHS IN CALCULATION OF CAPTIVE AIRLOADS PREDICTIONS SO CAPTIVE AIRLOADS PREDICTIONS 300 GALLOW TANK ON THE A-7 OUTBOARD PYLON MITH A 300 GALLOW TANK ON THE CENTER PYLON FILM A 300 GALLOW TANK ON THE

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VALUES USED FROI GRAPHS IN CALCOLATION OF CAPTIVE AIPLUAUS PREDICTIONS CAPTIVE AIPLUAUS PREDICTIONS A 336 UALLO TANK ON THE A-7 OLTBOAPD FYLON AITH A 360 GALLOY TANK ON THE CENTEP PYLON AITH A 500 GALLOY TANK ON THE CENTEP PYLON FOR INTERFERENCE

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X VALUE	435+0	43E+0	.349E+00	00540	46554	20000	655+0	435+0	435+0	43E+0	436+0	436+0	0 0 E+0	655+0	43E+0	655+0	435+0	652+0	436+0	655+0	435+0	65E+0	43E+0	43E+0	88=+0	315+0	885+0	97E+0	65E+0	97E+0	65E+0	97E+0	65E+0	76+0	65E+0	97E+0	97E+0	04E+0	97E+0	975+0	97E+0	88E+0	97E+0	65E+0	97E+0	65E+0	97.5+0	65E+0
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누	+ 366	3105	1325-02	2355-	79E-	383E-	159E-	726E-	3685+	105E+	280E-	20E+	414E+	750E-	7 00E+			•	, 7 a 3E + 30	; ; ;	794E+90	!	7365	17E	1001	385	117E-	703E		,702E+00	! !					. 700E+1	015+0	666E-0	120E	246E+0	106E+0	764E-0	7035+0		.702E+00	,	7035400)
× AL	343E+0	343E+0	8436+0	9006+0	900E+0	00E+0	900E+0	900E+0	8435+0	843E+0	843E+0	84.3E+0	420E+0	9036+0	843E+0	465E+0	34.3E+0	465F+0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000	1 H 1 H 1 K		2000	2000	1000	2124	2055 +0	8975	9 4 1 1 1 9 9	897F+1	465E+0	897E+0	465E+0	897£ + 0	465E+0	8975+0	897E+0	857E+0	104E+0	218E+0	897E+0	897E+0	847798	0 + H C	97F+ I	2 4 E E E	907540	465€+00
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VALUES USED FROM GRAPHS IN CAUCULATION OF CAPTIVE AIRLOADS PREDICTIONS CAPTIVE AIRLOADS PREDICTION FOR A 300 GALLON TANK ON THE A-7 OUTBOARD PYLON WITH A 300 GALLON TANK ON THE CENTER PYLON FOR INTERFERENCE	FIGURE LINE
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VALUES USED FROT GRAFHS IN CALCULATION OF CAPTIVE AIRLAAUS PREDICTIONS 3GO GALLON THE A-7 OUTGOARD PYLON MITH A 3GO GALLON TAK ON THE A-7 OUTGOARD PYLON MITH A 3GO GALLON TAK ON THE CENTER PYLON FOR INTERFERENCE

Y VAL UE	120E+0	4436-0	0 0E+0	.575£-Ú1	9 1 3 0 9	.7615-0	•		.3395+00	1	363E+0	2405+3	. 500E+00	1605+0	5535-0	1205+0	.7005+0		.6935+30		7035	26E-0		664E-02	.110E+0		.2756-04		903E+C	832E-0	.176E-0	3145+0	1386-0	.117E-01	200000	12051	2405-0	•	1001	• 1 5 UE • U	.383E-U		717E+U	.160E+01	.280E-0		.698E+00	60€+0
A Y C	435+0	811E+0	AAE+6	8115+0	43E+0	43E+0	06E+0	655+0	20E+0	65E+0	20E+0	31E+0	43E+0	43E+0	4354	436+0	43E+0	655+0	なるともの	65E+ů	436+0	43E+0	65E+0	435+0	436+0	65E+0	435+0	656+0	43E+0	43E+0	43E+0	435+0	12E+0	056+6	897540	97E+U	897E+0	07510	97540	975	97E+0	65E+0	975+0	976+0	97E+0	.465E+00	97E+0	97E+0
LINE	~	-	••	+4	m	-1	-	3	- 4	J	~	m	-	J	-	~	-1	-		~1	-1	N	Ω	7	~	73	8	8	۷	N	~	8	-	7	⊶ .	đ	- 4 ·	-	- 1	J	- 1	-1	+4	3	2	2	#	3
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	105E+0	10101	35E-3	132E	05E+0	117E+0	28E+0	217E-0	65E-0	51E-0	229E-0	672E-0	8 E+0	105E+0	456E+0	700E+0	0 + 3 0 č	.110E-0	0.	.1165-03		60 = +0	.195E-01		7945+0	Ñ		.116E+0	035+0	107E-0	90E+0	229E-0	335E+0	m	04360	.105£+0		878E-04		.106E+01		713E-03		.106E+01	0.	254E-03	٥.	.1102+01
×	13540	38714.1	811E+0	548E+3	436+3	43E+0	43E+0	20E+0	20E+0	20E+0	20E+0	20E+3	43E+1	43E+0	43E+0	43E+0	438+0	43E+3	65E+0	9	55E+0	0 +	843E+0	65E+0	843€+6	9	65E+3	8436+0	43E+0	843E+0	843E+0	43E+1	88E+J	1E+3	88E+3	97E+0	2	97E+0	Ēŧū	97E+0	65E+0	97E+0	65E+0	97E+0	5E+0	σ	455E+0	897E+0
LINE PROPERTY	j) -	•	+1	~		•1	-1	-	~	٧	V	m	m	4	-1	-4	-4		+	44	m	0	101	-	ν.	2	2	+4	N	2	~	+ 1	-1	7	m	4	⊷	-4	m	-1	-1		m	N	~	~	m
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×	1	20040	0 + 11 e e e	811F+0	9436+0	843E+0	4.06E+0	349E+0	120E+0	465E+0	120E+0	465E+0	8435+0	435+0	43E+0	43E+0	43E+0	4354	4.3E + 0	43E+0	0+32+	4 3F + 0	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6.3F+0		435+0	A4.3F + 0	4.55E+0	20F+0	- HE -	1 4 H 7 7	36 + 0	50F+0	0.05 + 0	0 - 32 O	97E+0	97£+0	65E+0	97E+0	97E+0	97E+0	65E+0	97E+0	97E+0	97E+0	65£ + 0	0+326	897E+02
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٠,	VALUE	69		0+300	7005+0	751E-0	1835-0	265-0	120E+0	2465+0	106E+0	425+0	382+0	.1055+0		624E-04		.1655+01		.2665-02		.1055+01	9.	-,477E-06		1055+01	:	.237E-02		.120E+	546-	903€	7315-	27č-	866+	035+	とりんミー	306-	.254E-		0 + 2 + 0	16.9E	ピーロウトド	0 1 36 10 0
×	₫	9	65E+	976+0	975+0	975+0	10	97E+0	о +	18E+0	97E+6	97E+0	E+0	975+0	65E+0	975+0	65E+0	ф +	65E+0	97E+Û	65E+G	97E+0	655+0	10+10	65E+0	97F+0	65E+0	897E+0	65240	97E+0	97E+0	3976+0	97E+0	205+0	20E+0	2uE+0	2112+0	20E+0	88E+0	652+0	647.0	j L	1 1 1	2 1 1 1
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>	44! UF	,			20E+0	120E+0	210E	417E-0	.698E+0	54E+C	545+0	764E-0	1485-0	902E+0	.396E-0	0.	135-0	.907E+00	.992E-0		.103E+G	9	3175-0	,	0-9097	007070	3000	7067	104040	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	225-0	701E+0	132E-0	761E-0	944E-0	541E-0	102E-0	333F-0	1000	יו ער ער	1000	1200	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51E+3
>	<i>-</i>	45564	376	Q L	897E+0	8975+0	897510	97E+0	0 4E+0	97E+0	8975+6	897E+0	897E+0	897E+0	897F+0	465E+0	37E+0	8975+0	897E+U	465E+0	897F+0	975+0		(+ 335 a	20000		27070	04770	24000	07540	27.540	•	97F+0	97E+0	120E+0	20E+0	20E+0	120F+0	1000	10001		.538E+00	20E+0	8 8 E + G
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2	a south	, a	4 +	0 K	197	207	200	500	217		227		233	242	247	2.50	253	264	9696	272	7.75	272	4 t 2 t	2 10 10 10 10 10 10 10 10 10 10 10 10 10	0 10	22	40,0	7 0	2 1 0	, , ,	100	202	200	200	20.5	707	2 2		9 1	7 P	- 1	r: . N: (324	6) (0 6)
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	FIGURE	u)	1,62	185	9 10	751	707	564	D-1	777	210	122	122	200	2 6	, to	5 6	222	3 . 13 (1 1	121	5/2	242	242	548	252	264	797	271	274	284	285	238	3 P	757	202	105	598	309	313	314	324	324	127

VALUES USEG FROM GRAPHS IN CALCULATION OF CAPTIVE AIRLOADS PRECICTIONS SOU GALLON TANK ON THE A-7 OUTSOARD PYLON MITH A 500 GALLOW TANK ON THE CENTER PYLON MITH A 500 GALLOW TANK ON THE CENTER PYLON FOR INTERFFERCE

LUE	7	440110	0 + 300	5755-0	1605+0	.7615-0		0.	.2875-04		.0	.297E+0	125-0	.8285+00	9612+0	056+3	456E+0	7005+0	.833E-C		0.02+0	1105-04		1.335-0	.120E+01		106E-03		9 0E	.1955-0		.7945+00	.261E-0	,	1155+0	703E+0	.107E-0	.190E+S	-,2295-03	335E+0	98E+3	109E+0	055+0	8785-0		.107E-01	0.55+0	6 0E + 0
VALUE	ф.	115+0	885+0	115+0	436+0	43E+0	066+0	65E+0	40E+0	65E+0	465E+0	40E+0	40F+0	43E+0	8435+0	43E+0	843E+0	43E+0	4.3E+0	4065+0	8436+0	8435+0	4655+0	8435+0	8435+0	4656+0	43E+0	65E+0	43E+0	435+0	65E+0	435+0	43E+0	65E+0	455+0	435+0	43E+0	435+0	43E40	88E+0	31E+0	88E+0	976+0	97E+0	65E+0	97E+0	97E+0	8976+0
LINE NUMBER	m.	-d ·	-+	, 4 '	~	-	+4	Ţ	4	ŧ	S	. ~	۰ ۸	1 177		M	H	ત	+	+	-4	**	-	ı - 4	8	-4	-1	႕	m	8	63	-	∾	∾ :	~	₩.	2	7	٥,	+1	-	H	m	-	-1	٦	0	w
FIGUE	8 7	22	52	5 9	ۍ 8	1 7	5	70	51	53	, oc	5.5	ט נ	2.5	ິເຕີ	55	90	76	17	90	7	35	r T	9		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	-4	90	46	47	Ф	C	₩.	-4	-	N	S	127	m	-3	3	S	ď	9	ð	^	~
m E	.175E+01	1915+0	35E-0	1 02 E+0	105E+0	117E+0	285+0	216E-0	350E-0			3015-04	1	262F+1	143F+6	7.00F	280E-0	497E+8	160E+0	355E-0		1695+0	1175	,	698	116E-Ü		591è-0	.110E+01		.413E-05		.160E+01	05E+0		74E-0	60E+0	32E-0	.626E-02	005+0	992E+0	015+0	9025+0	160E+0	61E-0	0.	04370	.120E+01
X AtuE	.3435+02	538E+0	11E+0	ABE+0	43E+0	43E+0	843E+0	140E+0	140E+0	65.5	6555	10.4	2011	31F +0	84.3540	843540	8435+9	343E+0	8436+0	43E+0	43654	84.3E+0	34.75	465E+0	843E+0	8435+0	465E+0	843E+0	43E+0	465E+0	843E+0	65E+0	43E+0	436+3	65E+0	40E+0	43E+1	436+0	435+0	50E+0	600E+0	056+0	97E+0	97E+3	97E+0	65E+0	97E+0	Ξ
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w	976+0	65E+0	8972+0	8976+0	97E+0	465E+0	97E+0	97E+0	97ë+0	65E+0	97E+0	97E+0	975+0	97E+0	97è+0	976+0	046+0	18E+0	97E+0	97E+0	885+0	97E+0	97E+0	652+0	97E+0	65E+0	975+6	97E+0	65E+0	97E+0	97E+0	976+0	978+0	65E+0	975+6	97E+0	65E+0	97E+0	65=+0	97£+0	0+3/6	976+0	975+0	STE+D	0+367	.146E+01	65E+0	ÜE+D
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\sim \sim	65E+0	97E+0	0+359	97E+0	65E+0	97E+0	65E+0	97E+0	465E+0	97E+1	65E+0	897E+0	97E+0	97E+0	97E+0	97E+J	04E+0	97E+J	97E+0	97E+0	97E+0	897E+8	897E+0	897E+0	65F+0	97E+0	97E+0	97E+0	97£+0	65E+0	97E+3	97E+0	65E+0	97E+0	65E+0	975+0	97E+0	65E+0	97E+0	97E+0	97E+0	975+0	97E+0	897E+3	1405+0	071	0+335	400+
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× ~	897E+02	0+359	97E+0	97E+0	97E+0	465E+0	97E+0	897E+0	975 + 0	465E+0	97E+D	8976+0	97E+0	897E+0	8976+0	97E+0	048+0	897E+0	548E+0	97E + 0	97E+0	0+326	397E+D	97E+D	97E+0	65E+0	97E+0	0+326	465E+0	897E+0	65E+0	897E+0	97E+0	0+359	97E+0	97E+0	97E+0	97E+0	0+3595	97E+0	975+0	97E+0	97E+0	97E+0	976+0	405+0	40E+0	.140c+01
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FIGURE	86	139	192	151	157	160	163	176	182	185	20 20 1-4-	197	202	207	202	211	2117	218	221	222	230	23.5	242	545	553	256	264	264	274	27.7	260	242	251	524	752	264	264	275	27.8	284	284	600	700	202	200	, K.) () () () () () () () () () (309

CASE NUMBE	Y VALUE -,7742-02 -,1176-01 0. 1206+01 -,1306-01 -,3516-03 -,3466-03
એ -	X VALUE .140E+01 .4684E+00 .4685+00 .588E+00 .140E+01
REDICTION	L I N E S S S S S S S S S S S S S S S S S S
11RL, 105 PR	FIGURE NUMBER 314 314 314 323 324 327 327
OF CAPTIVE	VALUE .3796-032596-04 0.3638-011016+019306-02
L . U L A I I U N	VALUE .140E+01 .588E+01 .465E+01 .465E+00 .140E+00 .140E+00 .140E+00
15 IN CA 102 A 1130ARD CH THE	L ING NUMBER 1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
FALUES USED FROM GRAFHS IN CALUCATION OF CAPTIVE AIRLADS FREDICTIONS INVE AIRLOADS FREDICTIONS OF LAPTIVE AIRLADS FREDICTIONS OF LAPTIVE AIR A-7 OUTSDARD IN WITH A 300 GALLOY TAKK CH THE PYLON FOR INTERFEPENCE	FIGURE NUMBER 312 312 318 321 325 326 328 328
VE AIRLOADS ALLOA TANK O MITH A 300 R PYLOA FOR	Y ALUE .439E-62 629E-03 919E-02 .131E-01 160E-01
CAPTI 300 G PYLON CENTE	X VALUE .140E+01 .140E+00 .140E+01 .445E+00 .465E+00 .140E+01 .265E+02 .843E+02
	LINE NCHAREP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	FIGURE NUPBER 310 317 317 321 325 324 327 329

VALUES USED FROM GRAPHS IN CALCULATION OF CAPTIVE AIRLOADS PREDICTIONS CAPTIVE AIRLOADS PREDICTION FOR A 300 GALLON TANK ON THE A-7 OUTBOARD PYLON HITH A 300 GALLON TANK ON THE CENTER PYLON HITH A 500 GALLON TANK ON THE

VALUE • 120E+01 • 100E+01 • 100E+01 • 572E-01 • 160E+01		1055+6 4565+0 7005+0 6335-0 7005+0		11 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3615-0 3615-0 3615-0 1202+0 3955-0 4006-0
X & L L C E & L L E E O & L L E O &	600 E + 0 600 E + 0	6 6 4 3 E + 0 6 6 4 3 E + 0 6 6 4 3 E + 0 6 6 6 3 E + 0 7 6 6 6 6 8 6 8 6 + 0 8 6 8 6 + 0 8 6 8 6 + 0 8 6 8 6 + 0		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2042E+002 2497E+002 2497E+002 2497E+002 2497E+002 2497E+002 2497E+002 2497E+002 2497E+002 2497E+003
LINE RUHBER 1 1 1 3	44440003	ਾਂ ਜੀ ਜੀ ਜੀ ਜੀ ਜੀ ਜੀ	너 때 때 때 때 때 이 이 이	८ ८ ७ ७ ७ ८ ७ ० ० ० ० ० ० ० ० ० ० ० ० ० ० ० ० ० ०	था के चिच्च द लेल चे छ थ
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VALUE -105E+01 -101E+01 -135E-01 -102E+01 -105E+01	433E-0 338E-0 626E+0	. 700 E+0 0 . 280 E+6 2 . 497 E+0 0 . 160 E+0 1 . 356 E-0 1	117 E - 0 116 E - 0 110 E - 0 110 E - 0	7366 7376 7376 7376 7376 7376 7376 7376	03E+0 20E+0 17E-0 13E+0 33E+0 33E+0 33E+0
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고 X B U V : 현 : 현 : 현 2 소 N I V II V : 현 : 현 : 현 : 현 : 현 : 현 : 현 : 현 : 현 :	ਰਚਚਰਪਾਤਤ	N = + M = = M =	न भ न नःनःन (\ (\ (નાળાળાળાળા તાન ન	च के मामा माम में १८०
FIGURE 2014 139 120 120 138 138	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	. 6 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	র ৯ এ ৯ ত ৪ ত ১ । জ জ গোল-ল ন জ জ জ লান্য-দান্দ লান্য-দান্দ	8 4 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
VALUE • 699E + 0.0 • 993E + 0.1 • 993E + 0.0 • 982E + 0.0	2006+0 2286+0 4036+0 2216+0 2706+0	.500E+01 .160E+01 .553E-02 .120E+01 .395E+00	0. 725E-05 160E+01. 7234E+00 703E+00 413E-05	0.160E+01. 116E+00. 107E+00. 107E+00. 107E+00. -229E+03. 339E+01.	1096+0 1056+0 8785-0 1576-0 1576-0 1576-0 1576-0
8-8-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	843E+0 843E+0 843E+0 465E+0 160E+0 33-E+0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	######################################	N 0 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7.8 P.D. 4.3.4 4.4. P.B. R. * * * * * * *	2 H H W H W W L		ਜਜਦਨ-ਜਜ਼ਜΩ ••••••		
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×	٧٨٢٥٤	976+0	655+0	3975+0	65E+0	.897E+02	65E+0	97E+0	97E+0	8976+0	97E+0	045+0	97E+0	588E+0	97E+0	97E+0	976+0	976+0	97E+0	97E+0	55E+0	976+0	97E+0	55E+0	978+0	55E+0	97E+0	97£+0	25E+0	975+0	97E+0	97E+0	97E+0	55E+0	97E+0	97E+0	975+0	972+0	37.5	505+0	505+0	55E+0	50E+0	50E+0	386+0	43E+0	50E+0	555+0	
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-	VALUE	•	42E-0	932E	.323E-0		.8335-0	02E+0	00E+0	60E+0	326E-0	282E-0	160E+0	46E+0	00 E+0	161E+0	.993E+00	703E+0	120E+0		.2515-03		35E	266E-0		71E-0	902E	60 E+0	.460 E-0		.702E+00	.120E+0		.196E-02		.1205.0	1065-0	20610	761E-0	290E-02	2146+6	138E-ù	6336-0	136-0	259E-0	•	. 101E+01	7746-0	56E-0
×	3	95E+0	976+0	4976+0	97E+0	*465E+00	97E+0	97E+0	975+0	972+0	97E+0	97E+0	04E+0	18E+0	97E+0	97E+0	38E+0	0+3/6	97E+0	55E+0	37c+0	55E+0	97E+0	897E+0	55E+0	97E+0	37£+0	97E+0	97E+0	55E+0	97E+0	97E+0	55E+0	97E+0	55E+0	37£+0	97E+0	97E+6	97E+0	50E+0	60E+0	60E+0	0+309	60E+0	88E+0	-	65E+0	0+3	43E+0
	5	0	c)	2	~:	8	0	2	+4	4	62	~	'n	~ 4	-4		+	~	. †	स्	Ţ	٦	m	4	-	-1	8		2	٧	-1	J	٧	2	~	m	ω:	י מי	N	ᆏ.	J	m	-4	+4	v	~	₩	۷.	.†
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۰	VALUE	.280			0+309	.692E-0		30E+0	6 3 E+0	205+0	530E-0	523E-0	20F+0	1 54E+0	206E-0	105E+3	-,342E+01	38E+0	0+350	-84E-		895-0	.907E+0	.160E+01	.103E+0		~	.120E+0		.5546-63		.105E+01	37E-0		.913E-02	901E+	676E-	• 963E+	220E-	4275-	954E-	05E-	-39t	43E-	• 629E-	135-	20E +	-30%	-39t
×	ă	97E+0) + 3 59	975+0	97E+0	897E+02	955+0	97E+0	97£+0	97E+0	97E+0	97E+0	04E+0	97E+0	97E+0	976+0	0+3/6	97E+0	0+326	97E+0	55E+0	97E+0	97E+0	97E+0	97E+0	55E+0	97E+0	97E+0	55E + 0	97E+0	65E+0	97E + 0	97E+1)	65E+0	97E + ∂	97E+0	97E+0	375 +0	97E + 0	97E +0	54E+3	50E+0	90E+0	50E.+0	53E + 0	60E+0	98E+0	30E+0	38E+0
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g	NUMBER	159	762	176	176	184	187	197	151	207	203	212	217	219	252	227	231	234	242	251	752	252	264	264	275	278	242	242	252	255	258	264	273	516	279	284	289	752	267	300	303	347	309	310	315	317	323	324	328

VALJES USED FRO 4 GPEPHS IN CALLULATION OF CIPTIVE AIPLLAJS PREDICTIONS CAPTIVE AIRLCADS PREDICTION FOR A 3CO GALLOM TANK ON THE A-7 OUTSOAND FYLOM AITH A 300 GALLOW TANK ON THE CENTER PYLUM FOR INTERFEPENCE

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VALUES USED FROM GRAPHS IN CALCULATION OF CAPTIVE AIRLOADS PREDICTIONS CAFTIVE AIRLOADS FREDICTION FOR A 300 GALLON TANK ON THE A-7 UUTBOARD FYLON HITH A 300 GALLON TANK ON THE CENTER PYLON FOR INTERFEPENCE

>	⊃	.120E+0	1005+0	.5756-01	0+3969	.200E+0	2285+0	.403E+0	!	.194€+00		64E+0	262E+0	.500E+00	1605+0	4975+0	760E+0	0 0	395E+0	9776-0	60€+ů	133E-0	.1205+0		.7035+00	135-0		60E+0	116E+J	7636+0	1765-0	3145+0	38=-0	1175-0	. 7035+09	.120E+U		.7025+96	.12021.	1	0+3/1/	.163E+C1	1425-0	9025+□	.556=-0	1	12721.	D+3705	9 - W - 8 9
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CAPTIVE AIRLOADS PREDICTION FOR A	300 GALLON TANK ON THE A-7 OUTSOARD	PYLON HITH A 300 GALLON TANK ON THE	CENTEP PYLON FOR INTERFEPENCE

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×	VALUE	.3975+02	.1045+03	.897E+02	.897E+02	.897E+02	.897E+02	.897£+02	.897E+02	.465E+00	.897E+02	.897E+02	.465E+00	.897E+02	.897E+02	.465E+00	.897E+02	.897E+02	.465E+00	.897E+02	+397E+02	.8976+02	.497E+02	.2005+01	.2002+01	ŧ.	.200E+01	0+3	.583E+00	.465E+00	.465E+00		.843E+02
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>	VALUE	.5236-03	.120E.31	.660E-03	.210E-01	+390	188E-01	.355E+01	.135E+01	0-3	0.	.105E' 01	. 11, 2-03	0.	.105E .01	.554E-i3	0.	.105E+01	.196E-02	٠,	.120E+01	136E-02	.120E+01	.427E-01	.992E-03	405E-01	.117E-03	.417E-02	629E-03	675E-02	.120E+01	14E-	3466-1
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9	* * * * * *	INTRE(*) = IME TYPES OF INPUT CARDS **ITPRES(*) = IME TYPE OF 3007 SEGMENT USED UN AREA CAADS * ICRES(*) = IME TYPE OF STORY CONFIGURATION USED IN IME ROLLING **OMEMET ROUTINE.		
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62		** SEALM(I) = THE TAST MUNBER NOW IS ALKAIS U.S ** ISTAAS(*,*) = AAQAA (COPTAINING THE SUT-OF-RANGE INSTICATORS. ** SUBSSPIPT I = CALCULATION NUMBER ************************************		
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CONTROL VARIABLE IN COMMON OR LOUIVALENCES, DRITHIZATION MAY SE INHIBITED. GAPJ NA. SEVENITY OCTAILS GLAGNOSIS OF SPUBLEM

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COMMON/FILES/DATAC. DATIN, GRAPHS, IERRCR, IERSUM, OUTPT, PEMOVE, TAPFIN LATEC, DATAC, DATAC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMMONICHMINA/ ITYPE(14),NTYPES( 4),NUFTNS(7),ICMFGS(5)
COMMON/COMINC/ JUM1,IMACH,KROITP(14),NCASE,NCASES(5,94),NUMCAS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ) ALINLI (NGASE) =1234321.
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                                                                                                              IHIS KUUTINE ASSIJNS HW INPUT JOUR TO IALH CARJ IN THE IROUT STREAM, THE ASSIGNED VALUES ARE GATHERED INTO GROUNS IN THE SACROSONS TO CASE NUMBER AS WILL AS CARONOWLER. IT THIS ROUTINE SEVERAL DATA FIELDS ARE CHECKED TO DETERMINE IF JALAY CONTAINING THE INPUT COCES FOR FACH LASSES (*,*) = AKRY CONTAINING THE INPUT COCES FOR FACH CASES (*,*) = AKRY CONTAINING THE INFUT.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IF (IMAGE(1). 600.8 HF1) CASE. AND. NUAPD. EC. 3) GO TO 15
IF (INCASE. EQ. 6) CALL 5P POF(17)
NUARO = NCAFO + 1
NUMCQE (NCASE) = MCA2)
NUMCQE (INCASE) = MCA2)
IF (IMAGE(1). EQ. ITYPE(1)) GO TO 300
CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YINTEL, YINTFO, YI, YIFRH, ZPH, ZPLNSF
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NCASES(NCASE,NCAPD) = I

CONTINUE

WRITE (TAPEIN,1)IMAGE

IF (IAPEIN,2)IMAGE

GO TO 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IUMCSO (5), NYACH
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FORMAT (AA, AZ, 7419)
IF (EOF (DATIN) .NE.0) 30 TO 1000
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CONTRACTOR CHECKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CUMMON/COMERRY IFRO
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CALL EFROP(11)
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UT IN) 0 = ACH CASE. 4 AFAIL TP-75-87 A AFAIL TP-75-87 A AFAIL TP-75-87 AFAIL TP-75-87 AFAIL TP-75-87 AFAIL TP-75-87 ASE 2 AFAIL TP-75-87 ASE 1 AFAIL TP-75-87 ASE 2 ASE 2 ASE 2 ASE 3 ASE 4 ASE 5 ASE 6 CHOSE IN TERFERING OUTDOARD INTERFERING AND PROJECTED ASE 6 CHOSE PLAN PROJECTED ASE 6 COOF ASE 6	NFUI IN) 0 = ACH CASE.	* * * * * * * * * * * * * * * * * * * *												VERT.	45 01	NO SYMMETRY	2		INLET	Č	1 C. T.			Ü	G STORE	O WHICH	1N1	WHICH WILL		AREA EGUAL -PRA)	:	CARDS FUP ITYPE 1-14	 	Q.	EO AREA	j K		URED ALONG	•
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+ 2) SUBSCRIPT 2 = A) 1 = SIJE PROJECTED A + 5) 2 = PLAN PRCJECTED A + 9XDCML = X/CML FOF PYLON	SUNDA TAILPA	= 4ING SEMI SPAN = INBOARO ADJACENI STORE NOSE OVE DISTANCE DOUTGOARD ADJACENI STORE NOSE OV DISTANCE - DISTANCE - DISTANCE - DISTANCE - DISTANCE	* XCO = SIDAE CENTER OF GRAVITY * Y1 = DISTANCE BETHEEN PYLON CENTERLINE AND T * Y1 = DISTANCE BETHEEN PYLON CENTERLINE AND T * Y1PRM = YINIAGH CLEARANCE BETHEEN INSTALLED STO	* YBL = SYLU 4 BUTTLINE * YBL = SYLU 4 BUTTLINE * YINTEL = HINIJUH 1 HROARD SIORE-10-SIORE SEP * YINTEL = HINIJUH 1 HROARD SIORE-10-SIORE SEP * YINTEL = HINIJUH 1 HROARD SIORE-10-SIORE SE	* SPH = SYLON HEIGHT		EL, SUMPA, TAIL FO, Yülg, YBL, ZPLNSP F, NCASES (5,94	CCHHON/FILES/Datac, Datin, Gpaph S, IERROK, IERSUM, OUTFI, REPOVE, TAPFIN INTGGE		UIM=NSION INPTOP(7) INDO = NUMC=D(NUMCAS) DO 1 NCARD=1,INJO <poiyp(ncases(numcas,ncarc))=0 continue<="" i="" th=""></poiyp(ncases(numcas,ncarc))=0>
e 9	Λ V	20	52	D	ம் ம	63 0	a,	139	٠ د و د د	ଦ ପ କ

39/20//5 1/.02.53

114 4. Stall

11 L

7/12

SCANOLINE READIN

09/20/76 17:02.53

FTN 4.5+410

```
69 READITAPEIN, 1650) ISONFG, ISYH, WINGPA, TAILFA, SUMPA, 12, 0)
IF((ISYH, EQ.1H+, 0R.ISYH, EQ.1HX), AND. (HINGFA+TAILPA+SUMPA, 12, 0)
* SALL ERROR(23)
1959 FOPHAT(9X, A1, 3X, A7, 5F10, 4)
IF(ISYH, EQ.7HSPA=PPA, 0R.ISY**, EQ.7H
                                                                                                                                                                                   IF (STOPEL, LE.0.3.02.STORED.Le.0.0.04.XCG.Le.u.0)CAL_ ERROR(18)
ANOSEL = ANOSEL / 12.0
STOREU = STORED / 12.0
CLAISO = CLAISO * 0.785398164 * STORED * STOREC
GO TO 1300
                        47 CONTINUE
60 TO 1000
60 TO 1000
60 TO 1000
FEADUTAPEIN, 10801STOREL, STORED, ANUSEL, ALFN, CLAISO, CCUISJ, XC3
50 READUTAPEIN, 10801STOREL, STORED, ANUSEL, ALFN
IF (ALEFIN (NUMCAS), "15, 1234321,") ALEFIN (NUMCAS) = ALFN
DO 53 ICX=NUMCAS, 5
ALEFIN (ICK) = ALEFIN (NUMCAS)
53 CONTINUE
IF ((AKN+AKBW+AK48+AKN8+EKT3+AKHBI).NE.0.0)CALL FRPCR(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cal_ ERROP(13)
00 63 J=1.5
IF(IJOHF6.NE.IOM=6S(J))60 TO 87
                                                                                                                                                                                                                                                                                                             C **** STORES TYPE CARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    **** STOREG TYPE CARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IDSY4 = J
GO TO 64
CONIINUE
IFRR = ICONFG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CALL ERROP (14)
                                                                                                                                                                                                                                                                                                                                                                                                                                             IERP = ISYM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO TO 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CONTINUE
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GEAD(TAPEIN,1080)ALINFO,ALINFI,2PLNSP,SML,SEGL,Y1PPM IF(SML,EQ.u.0.02.SEGL,FG.6.3)CALL E2POR(19) READ(TAPFIN,1080)(YEALH(INAUK), IMAGK=2,8) REAUM (NMACH) = REAUM(I) GO TO 85 Format (10 % , 7F 18.4) GO TO 1888 MACH1 = * * * * 9.0 2090 2 225 210 57.3 22.0

0041

0

PEAD(TAPPIN, 10, 80) XINTEG, YINTEO, JINTEO, XINTEI, YINTEI, UINTEI

DINTEG = DINTEO / 12.0 DINTEI = DINTEI / 12.0

IF (ICONFG.EQ.7H .AND.KRDTYP (3).EQ.() CALL ERROR(27) IF (KROTYP (1).ED.0.44).NUMCAS.EQ.1) CALL ERFOP(1)

CALL ERQUR (26)

508

285

280

j,

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PAGE

39/20/76 17:02:53

FTN 4.5+418

0.7 7 = 1

7-174

SUBTRUTINE YEADIR

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09/20/76 17:02:53
FTN 4.5+410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          00 600 INDXSP = 1,2
INDX1 = KRJTP(INDXSP+1)
IF(INDX1:EQ.0) GO TO 600
INDX2 = INDX2 - 1
DO 500 J=IP1.INDX2
IP1 = I + 1
DO 500 J=IP1.INDX1
IF(NSFG(I,INDXSP) - MSFG(J,InDXSP)) 560,540,550
IF(MSTPE(I,INDXSP) - MSFG(I,INDXSP)) 560,550
IF(MSTPE(I,INDXSP) - MSFG(I,INDXSP)) FEMAL = NSE(I,INDXSP)
ITEMAL = NSE(I,INDXSP)
NSE(I,INDXSP) = NSE(I,INDXSP)
NSFG(I,INDXSP) = NSTPE(I,INDXSP)
NSFG(I,INDXSP) = NSTPE(I,INDXSP)
NSFG(I,INDXSP) = ITEMAL
MSTPE(J,INDXSP) = ITEMAL
SPAT(J,INDXSP) = ITEMAL
MSTPE(J,INDXSP) = ITEMAL
MSTPE(J,INDXSP) = ITEMAL
MSTPE(J,INDXSP) = ITEMAL
SPAT(J,INDXSP) = ITEMAL
SPAT(J,INDXSP) = ITEMAL
MSTPE(J,INDXSP) =
                                                                                                                                                                                                                                                                                                                                                                                                              C **** SORI SPA AND PPA CARDS (IF ANY) INTO ASCENDING ORDER C ****
                                                                                                                                         IF(KRDTYP(1).6T.0.44).KFDTYP(1).LT.4)CALL ERROR(2)
IF(JER°.EQ.0) GO TO 510
CALL FRINTR(4)
STOP
510 CONTINUE
    0F T=1
    74/74
    SUBROUTINE READIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                54.0
55.0
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PAGE

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13

23

AITIME SETUP AS WELL AS CALCULATE	10	E FROM FORMARD MOST FOINT TALLED STORE TO THE WING	BUGG AN JUANCKED IN THE CONTRACTORS	PLAN PROJECT	JUSTED PL	JE SEGMENTS OF A SECTIONAL SEGMENT	· IDPOINTS RELATIVE T	TYPE	- II - II - II - II - II	O) 3 H HING D) 4 H H MAX	A) 1 = SIDE = KO	B) Z = PLAN PROJECTEE ARTH FOR SPA	440 and	FUR PP	FOP SP	ALJUSTED SPA	PT T T T T T T T T T T T T T T T T T T	RORMAL F LCULATION	FORCE CALCULATION	AS FOR = NU48	1 2 = 1=SPA	D SPA TOTAL	AL FOR SION FORCE	AL FOR KOR A	ED PPA / PPA TOTAL	POCE INITIAL PREDICTION FORCE INITIAL PREDICTION	R OF CARDS OF A PART	E OF CASE FOR CCASE N	E FROM STORE MLP TO AREA SEGMENT OF PLAN, PROJECTED AREA FORMARY OF THE	## ## ## ## ## ## ## ## ## ## ## ## ##
1146 •••••• 70 50 1	L PREDICTI	ONTLANC =	7.0	6	= SUN JF	SEE SEE	トアピアりらり		۵ آ	- 8115	;	= 1=K33SE		9 N 1 K X = Z =			SUBSCRI SUBSCRI	u.	2 =NO 3#	⊢ α′	UB\$ 3.2	11-1	1 U	0 4	2= 4·2	715= 808=	7 -	·)=THE TYE	= DISTANC = ADJUSTE	ن د د د د د د
543041285 ******** 89380411	ti i i i	ጋኒኒዩ		S€6₹(*)	SE6 40T (*)	(*)0IKS		488 25 (*,				AKHUSE (*)	(#) 302 11 74) OF T M (AKTAIL (+)	SADJSF (*,		ruex		SPAAUJ(*,		SPADUS (*)	SPATSF	v		FOEDN(+)	KROTYP (*)	VCASES(*,	XMOH(*)	
300	* *	4 - 4 .	. - =#	e # 11	• •	• •	• •	• • •	. •=:	4: 4	i~ ♥ :	* •	• •	•	• •	j- <u>∳</u> -	∯er+-	* #	•	* *	• •	•-•	• •	* •	#	• •	. 1		4-4 9	≡ <u>•</u> ≒

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6.0

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0=T=1

INITIAL FREDICTION YAHING MOMENT SHADOMED APER = SUM 3F (ABJUSTED PPA + XHOF (N))

PREYM Shoara Spymph

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ADPOSL, AKCFH, AKCYH, AKNUSE(2), AKTAIL(2),
AKHTVG(2), ALEDSL, ALEL, ANUPH, AREASP (4,2),
3DCL45,CLOC45,CLSL45, BVALUE(2), IBEGN, ILALSG(?),
IDSY4, IEND, IHACHI, PPAJFH, PPAXC, SADJSP (4,2), SHOAKA,
SLDSRF, SLOS45, SFADJS(2), SFATSF (2), SREF,
COHHON/COMINS/ ITYPE(14),NITPES( 4),NOFINS(7),ICNFGS(5)
CUMMON/COMINC/ DUM1,IMACH,KRDITP(14),NCASE,NCASES(5,94),NUPCAS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JIMENSION SEGADI(49), SEGI(49), SNID1(40), SMID(40), SPADU(40, 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                + 200.000/KSTCRED + YINTED
                                                                                                                                                                         GOMMON/COMINT/ AKCSF(2), PREDN(2), PREPH, PREYM, PXMJPH(40),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SETUP FOR INSUARD AND OUTSOARD STORE PUSITION LOOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMMON/REMOV2/ ICALGP(7), IFIND, INPGRA(7), IPRNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SRISTO, STLOCL, STPOMS, YOSTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADFUSL = SPADJS(2) / ST(REL
ANUPH = Y1PRH / YBIS
SLUSAS = SIN(ALAMSA) / (.70711
CLSLAS= CLOCAL * SLUSAS
STLUSCL = STOREL / CLOCAL
STRUSCH = STOREL / MSS
YDST = STORED # STUGED
SRISTD = SREF * STOREN
SLUSAS = SLUSAS | SEF
                                                                                                                                                                                                                                       CO1) HOWX (CD) + XHOHX C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUBLUCIO MIDINIFO MINIMENTO ON CATANTED OVALUCIO MINIMENTO MINIMEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COĞLUS = CLÓCÀL / CLOĞÊS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLUC45 = COS (4LAMBA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMMON/COMSET/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SADJSE
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S.

95

и СЭ

60.1

FAGE

7-174

11.13

SEATSP(I) = (1)
AKCSF(I) = 0
PREDA(I) = 0 AKHING(I) = AKHUSE(I) =

AKTAIL(I) = C CONTINUT

129

C **** TEST FOR + OF X COMPICURATION

1.5

130

5,

XSUM = XSUM + SEGL XHOJ(I) = (XGG - XSUM) / 12,0 SHID(I) = SHID(I) + SEUPNI + SEGL SECUNI = SEGMII + 1.0 IDLAST = NSEU(I,1) CONTINUE 0

50

145

) GO TO 100

IF (ISYM.E0.7H) 60 T 00 50 I=1.1XS NSEG(1.2) = NSEG(1.1) NSTYPE(1.2) = NSIYPE(1.1) SPAT(1.2) = SPAT(1.1)

KODIYF(3) = KROIYP(2)160 CONTINUE 53

150

**** SETUP TO CALCULATE INITIAL PREDICTION FOR SIDE FORCE AND
**** NUMMAL FORCE

155

150

150

20.0

165

170

00 4/5 INDX = 1,2 INDO = KROTYP(INDX+1) 00 156.[±1,1NO; 00 156.[±1,1NO; 00 156.[±1,1NO; 00 156.[±1,1NO; 00 156.[E,10,2],1NOX) = AREASP(J,INOX) + SPAT(I,INOX) AREANG = AREASP(3,INDX) 1F(ICASE = AREASP(3,INDX)) 1F(ICASE = AREASP(1,INDX)) 1F(ICASE = AREASP(1,INDX)) 1F(ICASE = AREASP(1,INDX)) 1F(ICASE = AREASP(1,INDX)) (APEAMG / ACOVEG)

91

22.5

PAGE

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C ****

C **** STTJP TG LALCULATE AUJUSTED PLAN PAUJEDIEL 19EA FORMARD

C **** OF WING AND ALSO SHADONED APEA

C ****
AKINIF = 1.0

GO TO 330

AKNOSE(INDX) = AKNB * £4EASP(2,INŮX) / AEEASP(1,INĎX)

AREAHG = AREASP(3,I'4DX)

AREAIL = AREASP(4,I'4DX)

IF(IDSYH .GE.3) AREAHG = WINGPA

IF(IDSYH .GE.3) AREAHG = WINGPA

IF(ILOSYH .GE.3) AREANG = WINGPA

IF(ILOSYH .GE.3) AREASP(1,INDX))

AKWING(INDX) = AKWII * (APEASP(2,INDX)+AREASP(1,INDX))

(AREAWG / ACONFG)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPADJ = DEFT * ANOSEK * ÄMINGK * SPAT(I*INDX)
SPADJ(I, INDX) = SPATJ
SADJSK(KFF, INDX) = SADJSK(TP, INDX) + SPADJ
SPADJS(INDX) = SPADJS(INDX) + SPADJS
SPATSF(INDX) = SPAT(I, INDX) + SPATSP(INDX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AKCSF(INDX) = SPADISCINEX) / SPATSPITNDX)
PREDN(INDX) = GLAISC * AKCSF(INDX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IF (3560(1,2).EG. YSES(1+1,2))60 TU 570 NSGTOT = NSGTOT + 1
                                                                                                                                                                                                                                                                                                                     00 450 I=1,1NDO
XDC = SMID(I) / CLOCAL
CALCLININT(6-INDX-1,XDC,DEPI)
KIP = NSTYPE(I,NDX)
GO TO (400,410,420,420),KTP
ANOSEK = AKNOSE(INDX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ANOSEK = 1000
ANINGK = AKTAIL(IRUX) * AKINTE
CONTANUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SECTION SPAND (1.2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KOSEK H 12.0
KINGK H PKEKINOKU
O TO 44.0
                                                                                                                                                                                                                                         AKNOSE(INDX) = 2.0
AKWING(INDX) = 1.0
AKINTF = 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NSGPH1 = KRDTYF(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SHIJE (1) = SHIE(1)
                                                                                                                                                                   AKWING (INDX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AND SEK # 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 5
                                                                                                                                                                                                                      GO TO 300
                                                                                                                                                                                                                                                                                                      CONTINUE
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νοακς = ..3

NPPA5 = KFETYP(3)

00 515 T=1,NPPA5

ΤΕ(ΚΒΣΤΥΡΕΙΧ),ΨΕ(2) 00 TO 515

ΤΕΠΕΙ = SMIO(2) / 2,000μ

ΤΕΠΕΙ = SMIO(3) / 2,000μ

ΤΕΠΕΙ ΕΕΡΕΙ.61.1.0.440.ΤΕΨΕ1.1.1) ΡΡΑΚΟ = PPAKC + SPAAD3(1.2)

CONTINUE
                                                                                                                                                                                                                                                                              C **** CALCULATION OF FIN AND MING ADJUSTED FLAN PROJECTED AREA U **** BETHEEN X/C OF 1.0 AND 1.1
570 SEGI(HSGTOT) = SEGI(NSGTOT) + SPAT(I+1.2)
SCC407 (MSGTOT) = SEGADT(NSGTOT) + SPAABJ(I+1.2)
SHIOLONSGTOT) = SHIOCIFID
575 COMPTANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPAJEW = PPAJEW - X3UM3 / SEGL * SEGADT(I)
PPEW = PPEW - X0UM3/SEGL * SEGT(I)
GG TO SAF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PPFH = 0.0

PPFH = 0.0

×00412 = SEG / 2.6

⋅00 1±1.NSGT3T ×000%2

×0043 = SEG1 / 2.6

×0045 = SEG1 / 3.6

×0045 = SEG1 / 3.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AKCYH = SPXMYM / SPATSP(2)
PREYM = AKCYM * CLAISO
RETUGN
ENO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONTINUE
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79.0
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THE PROPERTY OF THE PROPERTY O	SUBROUTINE TO COPY FILES TO SUTPUT ALL COPIES OF INTAFE MILL FOSITION INTAFE AT THE BEGINNING OF THE NEXT DATA SET: 2) IN ALL CASES THE ENTIRE DATA SET IS COPIED TO SUITPUT	* 5) WAPIABLES IFILE =1 COPIES FILE TAPEIN IFILE =2 COPIES FILE TAPEIN AND CATAC IFILE =3 COPIES FILE TAPEIN, DATAC, IERRUP AND IFILE =3 TAPEIN	IFILE =4 JOPIES FILE TAPEIN AND IERRCR IFILE =5 JOPIES FILE DATAC AND IERROP IFILE =7 COPIES FILE TERROR IFILE =7 JFILE =7 COPIES FILE TERROR	* c) THIS ROUTINE ASSURES FILES ARE UEFINED (BLKFIL) ***********************************	GOMNON/SILES/DATAC. DATIN, GPAPHS, IERSON, IERSUN, OUTPT, KENUVE. FAPE IN INTEGER DATAC, DATIN, GRAPHS, OUTFT, REMOVE, TAFEIN CONSON,	DIFENSION LOCATION TO 1 IF (IFILE ECAS) 60 TO 41 IF (IFILE ECAS) 60 TO 40 HEITE (OUTFT, 1000) NUMCA FORMAT (IHI, 40x, 35HIRPU IF (IERO, 60,1) HPITE (OUT	F054AT(1H+,83x,2H- ,15) 5_MIND TAPEIN IF(IERP,EG,1) GO 75 00 50 121, NUMCAS	10.10450 - 4.040080(I) 00.25 - 4.040080(I) ILITAS - ILITAS - 4.0 PEAB(14.101) ICOPY IF (I. E0. NUFCAS) 4.01	IFITLIMAS.LT.50,60 T WRITE(OUIPT.1000)NUM IF(IERC.EU.1)WPITE(OU PLIMAS = 1	CONTINUE CONTINUE CONTINUE ILINAS #	ICINAS = ILINAS + 1000 4 100 100 100 100 100 100 100 100
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IF(ITEMP.LE.7.4ND.IERR.NE.1) WPITE(OUTPT,1360)
FORMAT(//60x,124*** HOWE *** )
REWIND IFRROR
ENOFILE IERROP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          O PEAD(IERSUH, 101) ICOPY
IF (EOF (IERSUH), NG. 9, 0)GC TO 360
ITE-P = ITEMP + 1
WPITE (OUTPT, 101) (COPY
GO TO 330
O ICTEMP, LE.5) HRITE(OUTFT, 1300)
REWIND IERSUH
FNOFILE IERSUH
REWIND IERSUH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | REWIND | IERPOR | DEAD | DEA
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PEMIMO REMOVE
420 REACKEMOVE 1011 ICOPY
IF (ACKERNOVE NE.0) GO TO 430
MRITE(OUIFT, 1011 ICOPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REWIND IFRROP
IF(IFILE,NE.3)6J TO 400
REWIND IERSUM
102 - FORYAT"(17 - 16 A B - 44)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO TO 420
ENDILE PEMOVE
FEMINO REMOVE
RETURN EMOVE
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SUBAUUTINE ERROR(INDEX) C ***********************************		• ALAMDA ALEFIN(5), ALINFI, ALINFO, ALINLT (5), ANG SEL, • CODISO, CLAISO, CLUCAL, DINTFI, DINTFO, HHGHF, • ICASE, ICONFG, IMAGE (9), ISYP, ITILE (36), • NSEG(40,2), NSTYPE(40,2), SXCCAL, PEALM(3), SEGL, • SAL, SPAT (40,2), STOREO, STOREL, SUMPA, TAILPA,	* HINGPA.WSS,XCG,XINTFI,XINTFO,YBIG,Y3L, YINTFI,YINTFO,Y1,YIFRH,ZFH,ZFHNSF COMMON/COMINC/ JUH1,IMACH,KROIYP(14),NCASE,NCASES(5,34),U~LAS. * COMACN/COMERP/ IERP	COMJON/COMINB/ ITYPE(14),NTYFES(4),NOFTNS(7),ICNFGS(5) COMMON/REMOVZ/ ICALGR(7),IFIND,INPGRA(7),IPRNI ILINA + ILINA + I IF(NEXT:EO:NUMCAS.AM).ILINA.LI.56)GO TO 6 HRITE(IERROR,1030)NUMCAS, ITIILE	1363 FORMAT(1H1,/LPX,50H3APTIVE STORF AIRLCAD, FREDICTION GENERL MESSA *GFS .10X,14HCASE NUMBER = ,IS, 4(/29X,9A3),/) F CONTENDE
- 4 t	0	10	us H	20	e e

TE (NEXT: EQ.NUMCAS, AND. ILEND. LI. 56) 60 TO 9	SETURN CONTRACTOR TO THE PETURAL TRACTOR SECRETARIANS ON A MANAGED SECRETARIANS ON A MANAGED SECRETARIANS ON A MANAGED SECRETARIANS ON A MANAGED SECRETARIANS OF A MANAGED OF
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C-1 C-3

17/11/

SUPPOUTINE ESSOP

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HRITE(IERROR, 1150) FORMAT (1x, 21HINGUT DATA NOT FOUND

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CASE

130 WRITE(IEKRCR+1130) IFRR - INCORRECT BEFINITION ON STORES SARL FD 1130 FORMAT(11x+113HFATAL ERRCR - INCORRECT BEFINITION ON STORES SARL FD + R AREA SPECIFICATIO 1. (CNLY () OR (SPAEPPA) ALLOWED) + TH INFUTE, A7) 90 WRITE(IERROR, 1090)ICASE 1390 FORMATILK 72HWALNING - INFUT DATA INCUDDES EXTRANEOUS DATA 3" STOR • CARD FOR ICASE : ,IF) HRITE(IERROP, 1100) 7041 FORMAT(18) GIMERAOR - MAUH NUMBER QUI OF RAMGE FOR THIS MATHOG, MAC #H. WUMBER , FS.2, 30H. NOT INCLUMED IN PREDICTIONS. FÖRMÁTI(73X,144MACH 1UMBER = 1F5.2./) HRITE(IEOSUM,1120) BAOX, EADY, IABS(NGPKE), 4LPRE FORMATIGX,24HAGÁITYS - LATA POINT X =, fíd.4,5H, Y =, E10.4,24H LUT *OF QANGE FOR FIGURE,15.5H LINE,15) MRÍTEČIERKORJIÁLODVIGAGE FOG-JATKLYSTÄFATAL SPROF – SPECIFILDATION FIELD BAD FOR INFUT CARD. 75%-34fffist Ballands Skizhfff ILINA = ILINA 1 140 WRITE (IERRUR, 1140) IERR - INCORRECT STORE CONFIGURATION TYPE. 1140 FOR AT (1X, 78 H FATAL SRROR - 1140 FOR AT (1X, 78 H FATAL SRROR - 1141, 9H INVALID)
*NFIGURATION STORE TYPE = ,1A1, 9H INVALID) 150 WRITE(IEPROR,1150)ITYPE(IERR) 1150 FOR4AT(1X,22HERROR - HOFE THAN ONE ;48,43F CARD READ IN THIS *LAST CARU PEAD IS USED M č 115 N RETURN TECTURNI, EULUUNX, ANJ.NUM-CAS. 20.NXTCAS) GG TC HRITECTERSJN, 2000) 9041 ILINO = ILINO + 3 89 WRITE (TEPROS, 1980). DUMX = DUMI NXTCAS = NUMCAS ILINA = ILINA + 1 ILINA = ILINA - 1 2609 FORMATICA 150 1160 004 1123 1003 321 110 105 100 90 ŝ ğ å 7, 7.3 'n, 5

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C2 T=1 1+174 Stagoutine Earda

FIN +.5+413

240 #PLTECKEGENEUS 2210)
2280 FOSSATCINENCIA 2210
2280 FOSSATCINES FOR A CONFIGURATION CHOSEN HITH AREAS INFULL)
2280 FOSSATCINES FOR A CONFIGURATION CHOSEN HITH AREAS INFULL)
290 FOSSATCINES FOR A CONFIGURATION CONTRIBUTION C

130

SUBROUTINE LINING

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Cotel

24/24

SUASQUIENT LINERT

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Y,11X),/6X,
\ALUE,9X))
                                                                                                                                                                                                                                                                     ILINE = ILINE + 1
NPLACE = NPLACE - 1
1F (1PLACE - 2) 1, 72, 73
HRITE (EEMOVE, 1071) NSRAPH,NLCUR,XINDEP,YDEPT
FOR4AT (3X,15,3X,15,2X,E9,3,2X,E9,3)
                                                                                                                                                                                                                                                                                                                                                 WPITE(REMOVE,1973)NGRAPH,NLCUR,XINDEP,195FT
FORMAT(1H+,82X,15,34,15,2X,59,3,2X,69.3)
NPLACE = 0
                                                                                                                                                                                                                                                                                                                        WRITE(REMOVE,1072)NJ4AFF,NLJUR,XINDEP,YDEFT
FORMAT(1H+,43X+15,3X,15,2X,E9.3,2X,E9.3)
                                                                                                                                                                                                               X
VALJE
                                                                                                                                                                                                               LINE
NUMBER
WTRIES = NTRIES + 1
IF (WTRIES.LT.2)50 TO 15
NGPRY = NGCUR
NLPRY = NLCUR
CALL FPROR(6)
                                                                                                                                                                                                      MAIIE(PEMOVE,1070)
FORMAI(/6x,3(284FIGURE
3(304NU435R
                                                                                                            CONTINUE
NGRAFH = IABS (NGCUR)
                                                                                                                                                                                                                                          NP130E = 0
LASF = NUMCAS
DUMX = DUM1
                                                                                                     CALL ERGOP (12)
                                                                                                                                                                                                                                                                                                                                                                                                  REWIND GRAPHS
                                                                                                                                                                                                                                   <u>_</u>
                                                                                                                                                                                                                                                                                                                                                                                CONTINUE
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BROUTINE THOD	1 KOD	74/74	74/74 OPT=1			u.	FTN 4.5+410	1410	09/20/76 17.02.53	17.02.53
	<i>,</i>	SUBROUTINE THOD(NG3.LN1.LN2.AN1.AM2.XINJFE.YDEP)	WOD (NGS.L)	41 - LN2 - AM1 -	AM2.XIND	43CY . 37	-			
S	Ĭ	*********************************	******	******	****	***	*****	******		
(,	*							•		
ပ	*-	SUBROUTINE TO LINEARLY INTERPOLATE BETWEEN MACH NUMBER	TO LINEAR!	Y INTERPOL	ATE BETW	EEN MAC	SEMON H	*		
ပ	*	GRAPH LINES RETURNING THE DEFENDENT VARIABLE DESIRED	RETURNING	THE DEFEN	DENT VAR	IABLE D	ESIRED	- 4		
C	•	202	- NUMBER	OF GRAPH		- 	- - - - -	- \$		
ن	- • -	ਜ 2 -/	LINE N	MBEP AT HA	CH NUMBE	÷.		æ ∮		
ပ		~ 2		LINE NUMBER AT MACH NUMBER 2	CH NUMBE	ι · Ν · Λ·		= <u>•</u>		
Ų	•		101 4AC	H NUMBER)		- •		
ر.	*	4H2	- HIGH MA	HIGH MACH NUMBER				•		
(,	4	XI NDEO	N3c3ONI =	INDEPENDENT VARIABLE EVALUATED	BLE EVAL	34160		•		
U	*	40£0	= 9EPF40E	DEPFIDENT VASIABLE				•		
ن -	± 0.00≥ ± ± m	**************************************	20	* 22:4	S. TOTANS.	1. Z	*	# 64 # 144 # Q		

7-174

SUBRUUTINE SIOFAT

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HRITE (DATAC, 2000) (SFBAIC(I), ISTARS(2,I), I=1, IMACH)
HRITE (DATAC, 2050) (SFYSPF(I), ISTARS(5,I), I=1, IMACH)
HRITE (DATAC, 2050) (SFYSPF(I), ISTARS(5,I), I=1, IMACH)
HRITE (DATAC, 2050) (SFYSPF(I), ISTARS(5,I), I=1, IMACH)
HRITE (DATAC, 2050) (SFYSPF(I), ISTARS(6,I), I=1, IMACH)
HRITE (DATAC, 2000) (YAMASC(I), ISTARS(6,I), I=1, IMACH)
HRITE (DATAC, 1800) (YAMASC(I), ISTARS(6,I), I=1, IMACH)
HRITE (DATAC, 1800) (YAMASC(I), ISTARS(6,I), I=1, IMACH)
HRITE (DATAC, 1800) (YAMASC(I), ISTARS(10,I), I=1, IMACH)
HRITE (DATAC, 1800) (ANYSCF(I), ISTARS(20,I), I=1, IMACH)
HRITE (DATAC, 2003) (ANYSCF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONTINUE

WEITE (DATAC.1303)

WEITE (DATAC.1303)

WEITE (DATAC.1303)

WEITE (DATAC.1303)

WEITE (DATAC.200)

WEITE (DATAC.200)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IF(ICALSG(3).NE.11 50 TC 1
ILINES = ILINES + 13
IF(ILINES.LT.50)50 f7 125
ILINES = 7
                                                                                                                                                                                                                                                                                                                                                                                160
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74/74

SUBROUTINE STOPRT

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FORMAT (4x,37HINCREHENT-4DJACENT STORE INTERFERENCE)
FORMAT (6x,16HSL)PE POEDICTION,24x,7(2x,F9.5,A1)
FORMAT (6x,35HSL)PE PREDICTION
A ALPHA EREAK ,5x,7(2x,F9.5,A1)
FORMAT (6x,35HSLOPE PREDICTION
A ALPHA BREAK ,5x,7(2x,F9.5,A1))
                                                                                                                                                                                                                     #RITE(CATAC.1800)(AKSASE(E).TSTARS(33.I).TEISTACH)
#RITE(CATAC.1800)(AKSASE(E).TSTARS(33.I).TEISTACH)
#RITE(CATAC.1800)(AKSASE(E).TSTARS(33.I).TEISTACH)
#RITE(CATAC.1800)(AKSECT) TSTARS(33.I).TEISTACH)
#RITE(CATAC.1800)(AKTECT).TSTARS(33.I).TEISTACH)
#RITE(CATAC.1800)(AKTECT).TSTARS(33.I).TEISTACH)
#RITE(CATAC.2007)(AKTECT).TSTARS(33.I).TEISTACH)
#RITE(CATAC.2007)(AKTECT).TSTARS(33.I).TEISTACH)
#RITE(CATAC.2000)(AKTAFE(I).TSTARS(39.I).TEISTACH)
HRITE (CATAL, 1809) (P4IASC (1), ISTARS(31,1), 1=1, IM4CH)
HPITE (JAIAC, 2CJ)) (P4IAI( (1), ISTAKS(32,1), 1=1, IM4CH)
CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MRITE (DATAC, 1869) (R48ASH [I], ISTARS (43,I), 1=1,IMACH)
MRITE (UATAC, 2000) (R48AIF (I), 1STARS (41,I), I=1,IMACH)
MPITE (DATAC, 2050) (RAY IFF (I), ISTARS (42,I), I=1,IMACH)
MRITE (DATAC, 2075) (RAY IFF (I), ISTARS (43,I), I=1,IMACH)
MRITE (DATAC, 2075) (RAY IPP (I), ISTARS (43,I), I=1,IMACH)
MRITE (DATAC, 1700)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WRITE (OATAC, 2000) (RYIAIFII), ISTARS (44,1), 1=1, IMACH)
                                                                           IF (ICALS6(5).4E.1)67 TO 140
ILINES = ILINES + 12
IF(ILINES.LT.50)60 TO 125
ILINES = 7
WPITE (UATAC,800)NUMGAS;IIITLE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WRITE ( DATAC, 300) NUMBAS, ITITES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    IF(ICALSG(6).NE.1) GO TC 150
ILINES = ILINES + 13
IF(ILINES.LT.50)GO TO 145
ILINES = 7
                                                                                                                                                                                 (REALM (I) , I = IOTS, JMACH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (REALH(I), I=IPTS, JHACH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WRITE (PATAC, 1503)
                                                                                                                                                                                                      135 CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONTINUE
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FTN 4.5+410

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SUBACUTINE SICKER

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i nenu (* SUBFUTINE TO CALCULATE THE SIDE FORME (CNTRIBUTION * FOR FUGLE CAPOLATE THE SIDE FORME SLUFE * SFOAL(*) = INFOEMETAL SIDE FORCE SLUFE * SFOAL(*) = LOW FACH HUMBER * * * * * * * * * * * * * * * * * * *	
د بان	FORCE TICHTHANGER	
a ceru i	** STEAST = SECAT PERSENTAL SHOP = 9.5.7 STEASTON = STEAST TOOPE CORRECTION AT MACH = 7.5 STEAST = STEAST PREDICTION AT MACH = 0.5 * STEAST = STEAST PREDICTION AT MACH = 1.000 PREDICTION AT MACH = 0.5 ** STEAST PART * INTEROCEPT CORPECTION AT MACH = 4.000 PREDICTION AT MACH = 4.000 PRED	
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000	SETEMBLE TO TENTENCED TO THE TENTE TO THE	
	GOMMON/COMINTY AKCSF(2), PREPN, PREWN, PRINT, SFINER(7), SFYSP(7), SFINER(7), SFYSP(7), SFYSP	7 .
	0 + 1tt 2 G + 1t	

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IPANT = 1 IF (ICALSG (IFPNI) - E7,0 + Ph. I. SUSG (4) - E0.8) GC TO 2000

*LINTO = REALM(IMACM)
ANOSES = SADJSP(1)
INTOASE: E0.2) AMINGS = SADJSP(4,1)
INTOASE: E0.2) AMINGS = SADJSP(4,1)
SFRASE = AASIC AIRLOAD SIDE FORCE SLOPE PREDICTION
00 50 I=1.8

ISTARS(I.IMACH) = 14

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7874 * C 82430 * 62430 * SSNEHT

      DALL LININT(21,1,51,5)
      DEP21,

      CALL LININT(22,1,51,5)
      SEP22,

      CALL LININT(23,1,510)
      SEP23,

      CALL LININT(24,1,510)
      SEP24,

      SFQAL(1ALD)
      GEP21 * GEP22 * Ax0553 * JEP24,

      IF (1ADD,E0,2)
      GO 10 150

SFBALD(*) = SLOPF PREDICTION AT HAUH = 6.5 + SLOPE HACH NUMBER CORRECTION FOR SIDE FORCE BASIC ALRECTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CALL LININI(29,1) CUSL45,0EF29);
CALL LININI(30,1) CL3L45,0EP30);
CALL LININI(30,1) CL3L45,0EP30);
CONTINUE
CONTINUE
SFAAL(1) + (DUN.1 - DEP1AL)
(OE216+ - DEP1AL) + (SFAAL(2)
                                                                                                                                                                                                                                                                                 CALL LIMINITIE 3.1.CLSL45.0E219)
CALL LIMINITIE 3.1.CLSL45.0EP20)
SE9ALGIAGO = (OEP20) * 44145 * OEP20 ) * SREF
IF (IASO - 42.2) GJ * A 450
                                                                                                                                         CALL BREAKF(18,4,137E AK, CLSL45, DEP18L, FEP18H)
IF (DEF18L.LT.0.0) GO TO 160
GO TO (105.110.120.130), IBREAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CALL LININT(25,1,ST-) WS, 0EP25)
                                                                         XOELTA = 0.0
IAOO = 0
IP(JUM1.EG.C.5)50 TO 14C
                                                                                                                                                                                                                  IADD = IAJD + 1
SF3AL(IADD) = 0.0
IAUD=IAGG + 1
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                        - # =
- # =
- # =
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CALL LININTILE, 1. STLOCL, OEP15)
CALL LININTILE, 1. 2P4, OFF16)
SPSASP = PPLON(1) + OEP13 + OEP15 + OEP15 + SLOS45
CONTINUE

CALL LININT(13,1,ST-OHS,DEP13) CALL LININT(14,1,YOSTO,CEP14) RESIG = 1.0 - (1.0 - DEF14)

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THE THE SPECIAL OF STORM TO THE GROUP DESCRIPTION OF THE TRACE X = X TO THE TRACE THE TRACE THE X TO THE TRACE THE 
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(VBERZBH + QEP3AL) + (SFBAL) + (SFBANQ(2) - SFMNQ(1)) 

25억 SFBAIC(IMADH) = (SFBATP + XDEUTA) / SREF

IF(ICALSG(I), EQ.0)GO TO 20900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               **** SEDDID = SICE FURCE BALIC LIFTLAD ENTERCEPT PREDICTION AT ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       * AMINGS + CEP43 * BEP445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . DEPubl . SLOSUS . SAEF
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CALL LININT(46.1;CLSL45,DEP46)
SFRNO(IADD) = (JEP45 * F4IM·S + DEP46) * SLDS4' * SPEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INCOMING (1978)

INCOMING (1978)

IF (1986AKF(39, 3, 1838, 6255

IF (1986AKF(39, 3, 1838, 6255

IF (1986AKF(39, 1978, 6255

IF (1980 + 100) = 6.0

SEWN (17400) = 6.0

CALL LININT(39, 1978, 6259)

CALL LININT(40, 1978, 6259)

CALL LININT(40, 1978, 6259)

CALL LININT(41, 1978, 6259)

CALL LININT(41, 1978, 6259)

CALL LININT(41, 1978, 6259)

CALL LININT(42, 1978, 6259)

SEWN (1880) = (1980, 6259)

IF (1890, 620, 62) 66, 10 250

IF (1890, 620, 62) 66, 10 250

IF (1890, 620, 62) 66, 10 250
LEE SPRASCHEMACHI = (SPRASE + VUELTA)
                                                                                                                                                                                                                                                                                                                                                             IDSIAP = 2

If LOWING 1, 1, 5760 7, 155

CALL LINING 34, 4, 1045, 45, 105

CALL LINING 37, 4, 7310, fee 32)

CALL LINING 37, 4, 7310, fee 32)

CALL LINING 33, 1, ALEL CEP33)

CALL LINING 33, 1, ALEL CEP33)

CALL LINING 34, 1, 105

OFF 35 = 06, 05

OFF 1, 106, 107

CALL LINING 136, 1, 106

CALL L
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     XDELIA = 0.0
IAJO = 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SFBAIP =
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GALL LININT(SI, 1, 0041, 0E951) CALL LININT(S2, 1, 0041, 0E952) IF (1, E0.1) GO TO 4.25 NG ≅ 53 IF (0041, 61.0, 9) GO TO 390

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IF(L.EO.1)SLP55 = DINIFC * (XINIFO + 200.6) / (STORED * YINTF))
IF(L.EO.2)SLP55 = DINIFI * (XINIFI + 200.0) / (STOREU * YINIFI)
CALL LIMINI(55,t,0041, FP55)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C **** SFIASP(*) = SIDE FORCE INCREMENT AUJMCENT STURE SLOPE
C **** C **** C ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ÖINTEL.EG.0.3.AN).OINTEO.EG.0.0.0)60 TO 200001
NOS6 = STOREL / (SLOS45 † SLOS45 † CLOCAL)
                                                                                                                                                                                                                                                                                                                                                                                          IF()UHI.GE.1.05160 T3 460
CALL THOS(NG:2:3:0.3.1.65,ANUPH,DEF53)
Gu T0 500
          EALL THOS (MG.1, 2, 3, 1, 67, ANDFY, CEP53)
GO TO 590
                                                                                                    16 (2081.04.1.2)30 73 42C
CAUL 1800(86.2.3.1.)5,1,2,2,480F4,3FP53)
60 70 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CALL THOO (NG. 3,4.1.2,1.6, ANDPRIDEPSS)
                                                                                                                                                                                                                                                                                   IF (JUM1.GE.8.9)50 T) 448
CALL THOB(NG.1.2.8.7,8.5,11099.3EP53)
                                                IF(DUM1.6T.1.65)6n T3 413
CALL LIMINI(MG.2.6MJPM, CEF53)
GG T0 509
                                                                                                                                                                                                                            IF(0041.67.6.7) 50 77 436
CALL LININI(NG.2.48094, LEP53)
GO 10 560
                                                                                                                                                          ารี (ชบพูลเจ็รใจโลก 25/50 ร่อ เลสเ
เอโซน นามาราไทธ์ เลือนสมาชินเธอราง
เอียาอียด
เพีย = การส
                                                                                                                                                                                                                                                                                                                                                                                                                                                     IF(JUM1.GT.1.20) G7 TO 470
CALL LIMINIT(NG.3,AMJPM.(EF53)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CALL LININT (NG.4, ARIJPH, DEP53)
CORRENUE
                                                                                                                                                                                                                                                                                                                                            IF(JUH1.6T.8.9)60 T) 456
CALL LINIHT(NG,2,4NUP4.[EF53)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IF (3UM1.6E.1.6) 50 TA 480
1F()UP1.6E.1.85)60 77 460
                                                                                                                                                                                                                                                                                                                            GO TO 500
                                                                                                                                                                                                                                                                                                                                                                                 GO TO 599
30.5
                                                       20.4
                                                                                                           410
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**** SFIAIP(*) = ABJACENT STOPE INTERCEPT PREDICTION

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SFTASF (IMACH) = SFIASP (INACH) + JEP55 * SLP55

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A GPOSL, A KROPH, AKCYM, AKNOSE(2), AKTAIN(2),
AKHING(2), ALEDSL, ALEL, ANUPP, AREASP(4,2),
COCLAS, CLOCKS, CLSLAS, OVALUE(2), ISBEGN, ICALSC(7),
IOSY1, IEND, IMACHI, PPAUFH, PFAXC, SADUSP(4,2), SADAFA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  77,245 (46,7); 10314 P. 8804 IC. (7), 367 SF 6 (7), 884 SF, 384 SF (7), 386 SF, 384 SF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COHNON/CONTROL DUNT, FRAGH, COUNTYPOCIEN, NOASES, NOASES, 15, NONCAS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AKBH AKIN'F, AKN, AKNB, AKTB, AKHB, AKMBI,
ALAYJA, ALEFIN(5), ALINFI, ALINFO, ALINLI (5), ANOJEL,
300130, CLAISO, "LOCAL, OINTFI, DINTFO, HNEHF,
ICASE, ICCNFG, EMAGE (9), ISYP, ITILE (36),
NS.G(4 n, 2), NSTYPF (40, 2), YYCLNL, REAL*(8), JECL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          YHBASP, YFBASO(7), YHBAIP, YHCAIC(7), YHYSFF,
YHYSP4, YFYSCP(7), YHYSCH(7), YHYIPP, YHYIPH,
YHYISP(7), YHYICH(7), YHIASP(7), YHIAIP, YHIAIO(7),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YMIGIO(*) = Y1IGIF + INTERCEPT CORRECTION 4ACH = X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YAYSCR(*) = $1000 PERCONTION AT HACH = 0.5
YAYSCR(*) = YAYSPF + SUOPE CORRECTION AT HACH = X (+35)
YAYSCR(*) = YAYSPF + SUOPE CORRECTION AT HACH = X (+45)
YAYIPH = THEFLEPT PREDICTION AT MACH=0.5
YAYIPH = INTERCEPT CORRECTION ADACH=(+35)
YAYICH(*) = YAYIPF + INTERCEPT CORRECTION ADCH=(+35)
YAYICH(*) = YAYIPF + INTERCEPT CORRECTION ADCH=(+35)
YAYICH(*) = YAYIPF + INTERCEPT CORRECTION ADCH=(+35)
INCREMENT-AJACGAUT LICRE INTERFE°ENCE
                                                                                                                                                                                                                                                                          YABAIC(*) = Y18ASF + SLOPE CORPECTION AT MACH = 3.5
YHBAIC(*) = Y48AIF + INTEGLEPT CORRECTION AT MACH = 3.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SHL, SPAT (46, 2) /SIORED, STORE, SUHPA, TAILPA, AINGA, HSS, XCG, XINTFI, XINTFO, YSIG, YBL, YINTFI, Y
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4405# (2), PREDN(2), PREPH, PARYH, PYMOPH (40),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SLOSKF, SLOSK5, SPADJS(2), SPATSP(2), SPEF,
SRISIO, SILOCL, SIPOWS, YOSIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YNIASP(*) = SLOPE PREDICTION
AT MACH = 0.5
YNIAIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CALSR (7), IFIND, INPURA (7), IFPNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Y-8450 (7),Y-48 HIC (7),Y-48REK (7)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TROSEBLAT - ALOCOART YAN
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YAHING HOHERT
34SIC AIPLCAT
YABASE
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YMBALO (IMACH) = 0
YMYSOF (IMACH) = 0
YMYSOF (IMACH) = 0
YMYIOP (IMACH) = 0
YMYIOP (IMACH) = 0
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09/20/76 17:02:53

FTN 4.5+410

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74/74

SLBROUTINE YAHROM

114

I = I + 1 IF(IADD-ED-1) GO TO 120 XDELT = Y-02X(1) - 1001 - DEP62L) ' (YMDAX(2) - YMDAX(11) - (DEP52H - DEP62L) - (YMDAX(2) - YMDAX(11) 55 YM31 (IMACH) = (YMJASP + XDELTA) ' SPISIC **** YMBALP = YAWINS MO4ENI BASIC AIRLUAD INTERCEPT PREDICTION

IF(DUM1.61.0.5) GO TO 145 CALL LININI(71.1.0.5L45,05971)

CO

IOSTAP = 10

110

55

PAGE

MOWNEY BUTTUCARDS

51

FACE LIMINI,72,1,449PM,6EF72)

Call LIMI T(73+1-015-45+9FP73) Call Limimt(74+1+419M+FEP74) YEB74 = OE974 * HMMM YEB18 = (OFF71 +)EP72) * ALEL + JFF73 + 3E974) * SL3S45 CONTINIS

77 73

11 13 44

C **** YASAIO(*) = YAHIUS MQPENT BASIC AIRLCAS INTFOCEDT MACH NU4AEP C **** C *** C ** C *** C ***

,C15145, 0E076L, 0E475H)

139

160

173

135

YRIQER((CAUD)) = 0.0 JUND = JÜHP + 1 10 = 73 € 3 € (JUND - 1) + 1 IAUC = TADD + 1

CALL LIMINT(MG-1, CL3L45, DEPYI)
CALL LIMINT(MG-11, 1) SL65, DEPY2)
YHOAI(IADD) = (DEPYI # ALEL + DEPY2)
IF (IADD-EG-2) GO TO 177
IADD = 1ADD + I 175

67.

115

CALL LIMINT(79,1.0LSL45,3E>79)

CALL LININT(81,1,CLSL45,05P31) CALL LIMINI(30,1, Y7510,0EP30) DEP30 = 0EP80 * HW345

CALL LININT(82:1, Y)STC,0EP32) CEP32 = DEP82 * HHYF YMAI(IADD) = ((0EP79 * DEP30) * ALL * DFF31 + OEP42) * SLJS4F JUMP = JUMP * 1

145

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**** NAMING MONENT MODIFICATION FOR INTERMEDIATE WING LOCATIONS

18 CT 00 (CHARACTO - 2 - 19 TRACTO) 31

i Section Sect

IF (ðÚH) 165 (11,05) (G) TO 1182 CÁL - THOU (GÍO, 3,4/) 3,3 (11,05,105) GO TO 136 182 181

IF(JUH1.61.1.05) JO TO 183 CALL LIMINT(910,4,1LPOSF,0EP910) 185

184 CALL LININ1(910,5.11.POSF,UEP910)

IF(JUH1.E0.1.2) 60 TO 164 CALL THOD(910,4,5,J.9,1.2,ALPOSF,DEP910)

170

SUBROUTING YARROR

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Y439EK(IVACH) = UEP310 + DEP415 + HJUH * (UEP911 - DEP910)
CALL LININT(912,1,0UM1,DEP912)
CGALL LININT(913,1,0UM1,DEP913)
DEP914 = ALNL(013,1,0UM1,DEP913)
YMBNSC(IMACH) = (UEP912 * CLSL45 + DEP913) * SRISID + HWDHF*DEF914
YMBNSC(IMACH) = YMBNSC(IMACH) / SRISID
YMBNSC(IMACH) = YMBNSC(IMACH) - YMBNSC(IFACH)) * YMBNEK(IMACH)
                                                                                                                                                                                                                                                                                                                                                            ($6+)
                                                                                                                                                                                                                                                                                                                                                                                         (のヤー)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (+92)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (58+)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4444 YHYSÖF(4) = YAHING HONEHI INOREHFNIAL AIFCRAFT YAH SLOPE
HAGH NUJBER LORREGTION
**** YHYSOM(*) = YAHING HOMENI THOREHFNIAL AIFCRAFT YAH SLOPE
4*** YHYSOM(*) = YAHING HOMEN THOREHFNIAL AIFCRAFT YAH SLOPE
4***
                                                                                                                                                                                                                                                                                                                                                  PRÉDICTIO : INCREMENT LA ROCKAFT Y GH SLOPE PRÉDICTION
                                                                                                                                                                                                                                                                                                                                          YAHINS MUJENT INCKEMENT-AIRCPAFT YAM SLOPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CALL BREAKRING, 2, JUNP, CLISLUS, DEPYL, DEFYH, IF (DEFYL, L. L. L. L. 0) 50 70 215 IF (JUNP-2) 194, 193, 195
                                                                                                                                                                                                                                                                         ISTAKS(46, IMACH) = ISTAKS(45, IMACH)
187 CONTINUE
                                                                          IE (AEEAHI/SIOPEL-LE.5.0)GU TO 189
LALL LINIMT(915.2.0.41,CEP915)
GO TO 191
CALL LINIMT(915,3,DUM1,CEP915)
CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                            CGNTINUE
CALL LINIM<sup>*</sup> (911,1,4L<sup>9</sup>OSF,DE<sup>9</sup>911)
IF(ALEL,LE.82,0)60 TO 188
CALL LINIM<sup>*</sup> (915,1,0UM1,FEF915)
GO TO 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CALL LININT(92,I.CLSL45,DEP32)
CALL LIMINT(93,I. & 1,JP4,DEP33)
DEP33 = UEP93 * HWOAF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CALL LININI (94,1,CL3L45,0EP94)
                                                                                                                                                                                                                                                                                                                  INCREMENT AIRCRAFT YAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IF (00%1.80.0.5)60 TO 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YHOSSP(IAOO) = 9.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IADU = IAUD + 1
                                                                                                                                                                                                                                                                                                                                  DO 245 I=1.2
PAYSPF = YAH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   XDELTA = 0.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NG = 02- 1
                                                                                                                                                                                                                                                                                                                                                                            1400 = 0
                                                                                                                                183
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1140) = 15.05 + 1

CALL LININF(97.1.43.08) ,0E937)

CALL LININF(97.1.43.08)

CALL LININF(97.1.43.08)

CALL LININF(99.1.43.08)

FALSADO.EG.2) GU TO 210
                                                       391 STU
                                                                                                                                                                                                                                                                                                                                                                                                                              217 CONTINUE YAAING MOMENT INCREMENTAL-AIÁCRAFT YAM INTERCEPT C **** YYYLCP(*) = YAAING MOMENT INCREMENTAL-AIÁCRAFT YAW INTERCEPT C **** YYYLCM(*) = YAAING MOMENT INCREMENTAL-AIÁCRAFT YAW INTERCEPT C **** HACH HUMBER COPRECTION (-85)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 + HWOHF + DEP103) + DUHY3 + DEP109 + DEF110)
                                                                                                                                                                                                                                                  CALL LININT(95,1. A 1J=4,0FP95)
OED95 = DEP95 * HH745
YHOJCF(IAD0) = (CDEP92 + DEP93) * JUH/3 + JEP94 + UEP95)
IF(IAD0+EQ-2)GJ TO 213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13 YAGSIP (1ADD) = 0.0
YAGSIP (1ADD) = 0.0
(SALC LININICAL S.) SALCE (18.)
CALC LININICAL S. (SALCE S.)
                                                                                                                                                                                                                                                                                                                                                                                           IF(JUMI.GT.0.5) G0 TO 217
CAL LININI(103, I.CLSL45, DEP100)
CALL LININI(103, I.CLSL45, DEP100)
DEP101 = DEP101 * A40HF
02T=1
 74/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                233
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     SUBSCULINE YANNON
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240 IF(INEO.1) YMYICH(IMACH) = (XOELIA + YMYIFM) / SRISIO
1 IF(INEO.2) YMYICH(IMACH) = (XOELIA + YMYIFM) / SRISIO
1 INCEE | YMYICH(IMACH) = (XOELIA + YMYIFM) / SRISIO
1 INCEE | YMYICH(IMACH) = (XOELIA + YMYIFM) / SRISIO
1 INCEE CORRECTION
1 INCEE
1 I
IF(IADD.E0.2)GO TO 237
IADD = IADD + 1
CALL LININ(111: I.CLSL45, DEP111)
CALL LININ(112: I. ANDFY, DEP112)
CALL LININ(112: I. ANDFY, DEP112)
CALL LININ(113: I.CLSL45, DEP113)
CALL LININ(114: I. ANUFH, DEP113)
CALL LININ(114: I. ANUFH, DEP114)
DEP114 = DEP114 * HWDHF
YMGSIF (IADD) = ((DEF111 + DEP112) * DUNY3 + DEP113 + DEP114)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF(IADC.EO.2)GO TO 237
YHOSIP(2) = YHOSIP(1)
237 XDELTA = YHOSIP(1)+(DUM1 - DEPYL) / (DEPYH - DEPYL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          YAMING MOMENT ADUACENT STORE INTERPERENCE
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IF(1.E0.1) YUUH3 = DINTEC + (XINTEO + 240.6) / (STOREO + YINTED)
IF(1.E0.2) YOUH3 = DIYTEI + (XINTEI + 200.0) / (STOREO + YINTEI)
CALL LININT(115,1,4)41, CEF115)
YHIASF(IPACH) = YHIASP(IMACH) + DEP115 + YLUH3
                                                                                                                                                                                                                                                                                                           ALEL) / (STORED * YINTFO)
                                                                                                                                                                                                                                                **** YMIAIP = YAHING ADMENT INCPEMENT - ACJACENT STORE INTEPCEPT
****
IF(I.E0.1) DURY4 = JINIFO * (200.0 - ALEL) / (STORED * YINTFO
                                                                                                                                                                                                                                                                                                                      IF(I.50.2) DUNY4 = JINTFI + (200.0 - ALEL) / (STORED + YINTFI) IF(JUH1.6T.0.5)50 TO 24E
                                                               C ++++ "YMIASP(*) = YAWINS HOPENT INCREMENT-ABJACENT STORE SLOPE
C +++*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      246 CONTINUE
**** YYLAIC(*) = YAAING MOHENI INCREMENTAL-ADJACENT STORE
**** INTEPCEET FACH NUMBER UORRECTION
IF(DIMITED.0.0.0.AN).DINTFO.EO.0.0)60 TO 20000
IF(DUM1.EO.0.5)YYIAIP = 0.0
DQ 300 I=IRGGM,IEND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  YMIAIF = YMIAIF + (JEF116 + OCP117) + bumyt.
* STORFE
                                                                                                                                                                                                                                                                                                                                                                                       CALL LININT(116, I, CLSL45, DEF115)
DEP116 = DEP116 * HWDHF
                                                                                                                                                                                                                                                                                                                                                                                                                                   CALL LININI (117, 1, STPOMS, DEP117)
DEP117 = DEP117 + 440HF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NG = 171 ± 1
XOSUTA = 6.6
IF (QUMILEQ.6.5) GO TO 265
IADO ± 0
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CALL BEAKRING.2;JUNF.CLSL45.UEPYL.OEPYH) JENDERYL.IT.0108 GO WO.265 IFOIREONIS DURYS E DINTRO + XINTEO / STORED

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         366
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SUBAUUTINE NORFRC NOAM I FORCE	C AIRLOAD		AND	(*) = AVBAIF + INTERCEPT CURRECTION	AIRCOAFT YAK	SLOPE PREDICTION MACH =	= SLOPE PREDICTION MACH = 0.5	THE ANY OF THE CORRECTION AND ANY OF THE COR	(*) H DAYNTY * OLONG CONTROL TON	THE TOTAL MANAGEMENT OF THE PROPERTY OF THE PR	NIESCEPT CORPECTION MACH	(SOL) XHEORY MOTIFICIAN CONTRACTOR AND THE TANK TO THE	AN TACENT STORE INTERFERENCE	ANIAS	ANIASCITTO - SLOPE MACH NUMBER CORRECTION	ANIAIP(*) = INTERCEPT PREDICTION) VIVI	ا ب	ABLE TO THE DESCRIPTION OF THE PROPERTY OF THE	1			CATACACACACACACACACACACACACACACACACACAC		ANTENNICED IN UPPERSONATION CONTRA SERVERA MACH NUMBER	この方式のに、「この、「この」というないのは、「これ」とは、「この」のできませんが、「これ」とは、「これ」とは、「これ」とは、「これ」とは、「これ」とは、「これ」とは、「これ」とは、「これ」とは、「これ」	AND LONG'S AND LONER BREAK MACH NUMBER		SLOPG MACH NUMBER CORRECTION	ARTAIX(*) - UPPER AND LOWER BREAK MACH NUMBER	COORDINATION FOR INCREMENTALUNCENT STOKE	INTERCORPERATE STOCK CONTRACTOR TO THE PROPERTY OF THE PROPERT			30CL45,CL0C45,CL3L45,DVALUE(2),1BEGN,ICALSC	TOSY 4, IEAO, IMACHI, PPAJFH, PFAXC, SADJSP (4,2), SHOAF A,	SL052F, SL0S45, SPADUS (2), SPETSF (2), SRET,	ON VERHEAD VERBASSO, AND ASSOCIATION OF AND A TOTAL AN		ANYIOP(7), ANYIOM(7), ANIASF, ANIASC(7), ANIALL	TF.AKN.AKNB.AKTB.AKWB.AKWBI.		SOOISO, CLAISO, CLOCAL, DINTEL, DINTES, HWGHF,	CASS, ICCNFG, IMAGE (9), 15 (M+ 111 (EE (36))	・ いっぱり 。 (ち) おいないの・ こうじんべん 。 (へ・じょうしん チャソファ へい・じょう じゅりァ
SUBA		•	• •	• •	*	•	*	٠	•	• •	+ - ()		•	* =	, ψ	- - -	* -	<i>⊊</i> •••••	••	4-34: - 4:	- ∳ #-	u **	- ∳=	= 0	• •	*** } = •	*	•	*	*	• ;	2	- - - -	•	•	*	, č	4	• •	•	3	•	*	4

1405F(2), PPEUN(2), PREPM, PREYM, PX40PM(40), AINGDA, HSS, AGG, XINTFI, XINTFO, YGIG, YGL, YILTITI, YINTO, YI, YILYINT, ZDA,, ZDA,, PLNO

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| IF(ICALSG (IPRNT) . FO. 0) GC TO 20010 | ADDEL | ADDEL | SPADJS(2) | STCREC | ALUNSO = ADDEL | STOREO | YBIG. | YBIG. | YBIG. | YBIG. | XULMTO = ADDEL | YBIG. | YBIG. | XULMTO = ADDEL | YBIG. | YBIG. | XULMTO = ADDEL | YBIG. | YBIG. | YBIG. | YBIG. | XULMTO = ADDEL | YBIG. |

ARFA

**** ANJASU(*) = NORMAL FORCE BASIC AI LOAG SLOPE MACH NUMBER**** 00

XDELTA = 0.0 DECISA = 1.5 IF (ALFFIN (RUNCAS), NE. 1234321.0 CALL UFINITO 50 TO 440 CALL UFINITO 50 TO 440 CALL UFINITO 50 TO 50 TO 60 CALL UFINITO 50 TO 50 TO 60 CALL UFINITO 50 TO 50 TO 60 OURX3 = 0Epi35 COLOGAL

1.05

CALL LININTIAS6,1,004X3,0EP1S6) XIN137 = 00H1 - DEP134

113

- NURMAL FURCE BASIC AIRLOAD INTERCEPT PREDICTION CALL LININT(137, 1, XIN137, 0EP137)
XDELTA = SREF * 0EP137 * 0EP136
ANBASC (HAACH) = (AN3ASP+ XDELTA) / SPEF

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142 CONTINUE
**** AHJAIC(*) = NORMAL FORCE BASIC AIRLUAD INTEPLEPT MACH NUMBES*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (-83)
                                                                                                                                                                                                                                                                                                                                                                                                                      COCMECTION

| MOTERIA = 0.00
| If GOUNTLE DEPISA, GO TO 143
| LALL LININI (144.1.71) | (SREF * CLOC45 * CLOC45) -
| DEFISA = SADJS (1.2) | (SREF * CLOC45 * CLOC45) -
| OF 144 * FPAXC | SREF |
| CALL LININI (145.1. XII 42.0009142) |
| CALL LININI (145.1. XII 42.0009143) |
| CALL LININI (145.1. XIPONS, DEPISA) |
| WORL LININI 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (+9Z)
                                                                       DO 218 U=142

IOSIAR = 18 + J

IF(JUH1.61-0.5)50 TO 144

XOELTA = 0.0

CALL LIMINI(145-J.COCL45,DEP146)

CALL LIMINI(147-J.AVUPN ,DEP147)

UPP147 = 0EP147 + H4DHF

CALL LIMINI(148-J.COCL45,DEP147)

OALL LIMINI(148-J.COCL45,DEP148)

OALL LIMINI(148-J.COCL45,DEP148)

OALL LIMINI(148-J.COCL45,DEP148)

OALL LIMINI(148-J.COCL45,DEP149)

OALL LIMINI(148-J.COCL45,DEP149)

OALL LIMINI(148-J.COCL45)

OALL LIMINI(148-J.COCL47) * ALEL + DEP149) * S

IF(J.EQ.2) ANYSP = XOELTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #### ANYSOF :-) = NUPMAL FORCE INCREMENTALFATRCPAFF YAH SLOPE
##### ANYSOM(*) = NURHAL FORCE INCREMENTALFATRCFAFT YAH SLOPE
##### ANYSOM(*) = NURHAL FORCE INCREMENTALFATRCFAFT YAH SLOPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROPER ANYSON = NORMAL FORES INCREMENTALY ALPORAFT YAM SLOPE WASHER!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        **** ANYSPD = NORMAL FORCE INCREMENTAL- AIFORAFT YAW SLOPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NG = 153 + J
OALL BREAKPING, NLIMES, JUMP, CBOL45, DEPYLO, DEPYHJ)
IF (LUPPLO, LT, 0,9) GG TO 145
IF (LUPPLA, 150 TO 145
JUMP = JUMP + 1
                                                                                                                                                                                                                                                                                              JEP140 * 05141)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INCREMENTAL - AIRCRAFT YAH
                                       GO TO 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TO 160
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IF(JUM1.EQ.0.5) 50
                                       IF CUUMI. of .0.5)
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ANFJOHICEGOO) = ((OG2Y1 + OEPY2) * 13POSL + OEPY3 + OEFY4) * SPEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IF (JUHI-61-65) 60 TO 182
CALL LINIX(169-J-626L45-0F9169)
CALL LINIX(170-J-57F0MS-0E9170)
CALL LINIX(177-J-J-MUPH -0E9171)
GEPT1 = 0E9171 + H40HF
CALL LINIX(172-J-676L45-0E9172)
CALL LINIX(173-J-57F0MS-0E9173)
CALL LINIX(173-J-57F0MS-0E9173)
CALL LINIX(173-J-34MPH -0E9173)
                                                                                                                                                                                                                                                                                                                                                                                                                                            140 IF (J.EO.1) ANYSCY(IMACH) = (ANYSPH + XDELIA) / SREF

*** ANYIPP = NORMAL FORCE INCREMENTAL-AIRCRAF1 YAM INTERCEPT

**** ANYIPY = NORMAL FORCE INCREMENTAL-AIRCRAF1 YAW INTERCEPT

**** ANYIPY = NORMAL FORCE INCREMENTAL-AIRCRAFT YAW INTERCEPT

**** ANYIPY = NORMAL FORCE INCREMENTAL-AIRCRAFT YAW INTERCEPT

****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NORMAL FORCE INCREMENTAL ALACPART YAW INTERCET
WACH NUMBER CORPECTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ** ANIMOP(+) = NORAGL FORDE INCREMENTAL-AIRCRAFT MAN INTERCEP
** HEADH NAMBER CORRECTION
                                                                                                                                                                                                                                                                                                                                                                                                     - DEPYLU) / (JEFYHI - DEFYLO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ir, caclas, depylo, depymii
                                                                                                                  = ANFA84(1)
                                                           5 JUMPP1 = JUMP + 1
10 BO 155 I=JUMP + 1
IF (I.6T. (NLINES+1)) ANFAEN(2) = AhF
IF (I.6T. (NLINES+1)) 53 TC 165
NG = 125 4 + (I-5)
CALL LIMINT(NG, J, C) 2 L 5, 3 E P Y 1)
IAJU = IADD + 1
CALL LIMINT(NG+1, J, ANUPP, DEPY2)
OE PY2 = NEPY2 + HMDHF
CALL LININT(NG+3, J, ANUPP, DEPY2)
CALL LININT(NG+3, J, ANUPP, DEPY2)
OE PY4 = DEPY4 + HMDHF
                                                                                                                                                                                                                                                                                                                                                                      155 CONTINUE
155 XDELTA = ANFABN(1) + (DUM1 - DEP)
157 XDELTA = (ANFABN(2) - ANFABN(1)
158 XDELTA = (ANYSP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           I BD804 199780N = (+)404744 + ++++ 0
00 33657N 4064 = (+)401747 + ++++ 0
01 33671 19780N = (+)401747 + ++++ 0
01 33671N HOVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APET IF (J. E.O. 1) ANYIES - KACLTA.

IF (J. E.O. 1) ANYIES - KACLTA.

IS (O. E.O. 2) ANYIES - KACLTA.
IADD = IADD + 1
ANF43N(IADD) =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IOSTAP = 20 +
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JUMP 1 COMP

1.83

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JMP = JUMPA

285

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PAGE

CALL NOKSBI(J,J4P,23%,DEPYIA,DEPYZA,XCELIA)
270 AHIJIU(IMACH) = ANIJIC(IMACH) + XLELIA
360 CONTNUE
ANIASC(IMACH) = (ANIASU(IMACH) + ANIASE) / SREF
ANIAIC(IMACH) = (ANIAIC(IMACH) + ANIAIE) / SREF
ANIAIC(IMACH) = (ANIAIC(IMACH) + ANIAIE) / SREF

SUBROLITME NURFRE

09/20/76 17.02.53 ADPDSL, AKGFH, AKCYH, AKNOSF(Z), AKTALL(Z), AKHING (Z), ALEDSL, ALEL, KHUPY, AREASP (4, Z), GDCL45, GLDC45, GLSL45, DVALUE (Z), IBEGN, ICALSG(7), IDSY1, IEP D. I "ACH1, PPAJFH, PPAXC, SADJSP (4, Z), S-10A+A, SLOSAF, SLOS45, SFADJS (Z), SFATSF (Z), SREF, SPISTD, STLOCL, STPDHS, YOSTD CONBUNZCOMINC/ DUMI,IMACH,KRDTYP(14),NGASE,NCASES(5,94),NUFCAS, TAIS ROUTINE JALGULATES THE INCREMENTAL ADUACENT TO STORE INTERFERENCE MACH NUMBER CORRECTION FOR 30TH SCOPE AND INTERCEPT FOR NOFMAL FORCE. NUMC 2D (5), NHACH UIMENSION BREAK(2) COMMON/COMSET/

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97

13 JUMPS 1 = JUMP + 1
15 DO 12G I=JUMP + 1
15 EC 151.4) BREAK(2) = BPEAK(1)
15 [1.G1.4, GU TO 133
NG = NGRPH + 2 * (I-2)
CALL LIMINT(NG.,3,CD2L45,DEPY3)
CALL LININT(NG.,3,CD2L45,DEPY3)
CALL LININT(NG.,3,CD2L45,DEPY3)
AKSEPI = DEPY3 * AD=DSL + DEPY4
BKSEPI = DEPY3 * AD=DSL + DEPY4
BKSEPI = DEPY3 * AD=DSL + DEPY4 IAUD = 3 IF (JUPP-4E-1)GO TO 100 CONTINUE XOELTA = 20 C T T

33

/ (De26 + 23'20) /

SPEAK(1) + (DUN1 - DEF1)

PETURN END

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₹.	4	SLOPE PREDICTION MACH = 0.
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C)	•	MALH NUMBER CORRECTION
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د	/ JML 200/ 2008	CHHI. THACH. KRDIYP(141. DC
		• NAACH
	CC 1808 / COB INT /	AKCSF(2), PREDN(2), PREPH, PREYH, PY HOPH (40),
	•	(05) HOHY
	CO440N/COMINP/	ITF.AKN,AKNB,AKTB,AKHB,AKHBI,
		1. LEF IN (5) ,A
	•	CAISO, CLOCAL, DINTFI, DINTFO, HWOHF,
	•	ONFG, IMAGE (9), ISYM, ITITLE (36),
	•	2), NSTYPE(49,2), PXDCML, REALM(8), S
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XDELTA = AFMBMC(1) + (OLMI - DFPYLO)/(OEPYHI - DEFYLO) + (APMBMC(2) - APMBMC(1))

170 PABASC(IMAUH) = (PMBASF + XDELTA) / SRTSIF

**** PMBAIP = PITCHING 40MENT BASIC AIRLOAD INTERGEPT PREDICTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    - APMBIC(1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        185 CONTINUE
C +++* PHBAIC(+) = PITCHI-16 HCHENT BASIC AIRLOAF INTERCEPT MACH
C +++*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       = PITCHING 40MENI INCREMENT-AIRCRAFT YAW SLOFE (+)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IC(1) + (GUM1 + DEPYLO) /
(DEPYHI + DEPYLO) + (APMBIC(2)
= (PMBAIF + XDELTA) / SRISTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LALL BREAKH(227.4.1.) 206.45. JEPYLO, GEPYHI)

LALL BREAKH(227.4.1.) 60 TO 235

IF (1.67.4.1) 60 TO 21

IF (1.67.4.1) 60 TO 21

IF (1.67.4.1) 60 TO 21

APH BIC (1ADD) = 3.00

GO 10 21

IF (1.60.4.1) NG = 1

IADD = 1ADD + 1

CALL LININT(NG+1.1.CDCL45.DEPYI)

CALL LININT(NG+1.1.CDCL45.DEPYI)

CALL LININT(NG+1.1.CDCL45.DEPYI)

CALL LININT(NG+1.1.5.TCDK5.DEPYI)

CALL LININT(NG+1.1.5.TCDK5.DEPYI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INCREMENTAL-AIRCRAFT YAH
                                                                                                                                                                                                                                                                                                                                                                           IF(JUM1.GT.0.5) GO TO 185
CALL LIMINT(225,1,°CC)CAL,DEP225)
CALL LIMINT(226,1,°JC)CL45,DEP226)
FMBAIF = SREF * (DEP226 * DEF225 * ALEL)
                                                                                                                                       CALL LININT(223.1.5720M5,DEP223)
CALL LININT(224.1.030L45,0EP224)
APHROC(IAD2) = 3EP224 + 3EP223 * AKPONL
COMITMUE
                                                                      AKPINE
              CALL LINIMIC21,1,51°045,9E921)
CALL LINIMIC22,1,00045,0E9222)
APM34C(IACC) = 355222 + 9E9221 *
IF(IACO-EG-2) GO TO 16G
IACO = IACC + 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APRHICCED + (DUMI
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XOEUTA = 0.0
IF(JUH1.EQ.6)5560 73 235
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  = SREF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 **** PHYSPP
IABO
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DO 357 NL = 1,2

IDSTAR = NL + 26

IDSTAR = NL +
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #### PMYSOF(#) E PITCHIAG HONENI INCREMENT-LABRORAFI YAH SLOPE
*### PMYSOF(#) E PITCHIAG HONENI INCREMENT-LABRORAFI YAR SLOPE
*### PMYSOF(#) E PITCHIAG HONENI INCREMENT-LABRORAFI YAR SLOPE
*#### PMYSOF(#) E PITCHIAG HONENI INCREMENT-LABRORAFI YAR SLOPE
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IF(AL.50.2) PHYSCP(14ACH) = (PHYSPF + XDELIA) / SPISIC
**** PHYIPF = FIICHING 40HENT INOREYEUT-AIRCACHT YAM INTERCEPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C 6444 PHYIPH = PITORING YORKY I TORKYENI+BIRGGEPT YAM KRIEROKPT C 6444 PHYIPH FRIEROKOFFT C 6444 PHYIPH PREDICTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29 xDFLIA = APYYNC(1) + (DLM1 - DEFTLD) / (DEPYNI - DEPYLD) (AFMYNC(2) - APMYNC(1))
C **** PHYSPM = PIICHING 40MENT INCREMENT-AIRCRAFT YAW SLOPE
C ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 XDELTA = 0.0

IF(JUMI.E0.0.5)60 TJ 29<sup>E</sup>

CALL ePEAKP(242,4,1,COCL45,DEPYLG,DEPYHI)

IF(Jc.FYLO.II.0.3)6J TO 295

IF(I.GT.1) GO TJ 273

TAJJ = IAJUG <sup>4</sup> 1

I <sup>±</sup> 1 <sup>‡</sup> 1

I <sup>±</sup> 1 <sup>±</sup> 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UALL LININITING 1.NL.ANUFH , JEPY2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GALL LININIKS *2. "N. COCLAS, DEPY3)
CALL LIMINIKS *3. "N. ANUFM , DEPY4)
DEPY4 = DEPY4 * HHDHF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CALL LIJINT(259,NL, 305L45,DEP259)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CALL LININT (NG .NL . COCL45 . DSPY1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IF (JUM1.6T.C.5)50 ") 39C
XDELTA = 0.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APHYNO(EADD) = 0.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FOSTAR = NL + 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IAUD = 0
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FTN:4.5+410

0P T=1

SUBACULING PITHON

74/76

SUBBOUTING PLINONS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            400 CONTINUE

405 XDELTA = AFHYAL(1) + (DLM1 - DEPYLU) / (EFPYHI - DEFYLU) + (AFHYAL(1)) + (AFHYAL(1)) - (AFHYAL(1)) - APHYAL(1)) + (AFHYAL(1)) + + (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  425 CONTINUS
C 4+** P41AIC(*) = PITCHING PONENT INCREMÊNÎ÷ALJACENI SIOPE
C +*** P41AIC(*) = PITCHING PONENT INCREMÊNÎ÷ALJACENI SIOPE
   FIN 4.5+410
                                                                                                                                                                      375 CONTINUE
C **** PYIASC(*) = PITCHING MOMENT INUREMENT-ACJACENT STORE
C **** INTEPFERENCE SLOPE HACH NUMBER CORPECTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IF (JUH1.6T.1.5)60 TO 425
CALL LININT(291.NL,CDCL45,DEP291)
CALL LININT(292.NL,CDCL45,DEP292)
PHIAIP = FNIAIF + (JEP291 * PPADSL * DEP292)
DVALUE(KL) * SPISIO
                                                                                                                                                                                                                                                                                                                                 IADD = 9

IF(OUM1.E0.0.5)53 T3 410

CALL BREAR(284.3.I.3BCL45.DEPYLO.DEPYHI)

IF(129YLO.LT.0.0)G0 T0 410

IF(1.GT.4)G0 T 390

IADD = IADD + 1

I = I + 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DVALUE(NL) * SRTSTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CALL LININI(NG+1,NL.COCL45,0EPY2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DO 450 J=1,IP1

IF(J.GT.4) APHIAC(2) = LPHIAC(1)

IF(J.GT.4) GO TO 465

HG = 295 + 2 * (J-2)

CALL LINIMI(NG,NL,C)CL45,DEPY1)
           02 7=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APMIAC(IA30) = 3.0
G0 T0 455
IF1 = I + 1
                                                                                                                                                                                                                                                                                               XDELTA = 0.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XDELTA = 0.0
               74/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            I TOI
           SUBROUTINE PITHON
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ιn	AXIAL FORCE BASIC AIRLOAD AXONOMIC
1	AXBASP(*) AXBAIP(*) INCREMENT-AIR
7.0	AXYSPE(+) AXYSPE(+) AXYSPE(+) AXYIPP(+) AXYIPP(+)
tv	STATE OF PREDICTION = SIOPE PREDICTION = TITERLEFT PREDICTION SHADED AREA
82	COMMON/COMING/ JUMI,IMACH,KROTYP(14),NCASE,NCASES(5,94),NUHCAJ, COMMON/COMAXI/ AXBASP(7),AXAAIP(7),AXYISP(7),AXYIFP(7),AXYIFP(7), COMMON/COMINP/ AXBH,AKITPR(7) COMMON/COMINP/ AXBH,AKITF/AKN,AKNB,AKTB,AKMB,AKMBI, ALAMA,ALEFINES,ALTHE,AKN,AKNB,AKMB,AKMBI,
10	
0	4 SG (7) ;
35	SLDS 2F SLDS 4F STDS 1F STATE XC SAUJSP (4,2), SHDAFA, SRISTO, STLOCL, STPOHS, YDSTO COMMON/COHWAC/ XLINTD COMMON/REMOV2/ ICACR(7), IFINO, INPGRA(7), IFROT COMMON/REMOV2/ ICACR(7), IFINO, INPGRA(7), IFROT COMMON/COMSTR/ TSTASS (4,6,7)
0 7	0.01.01.01.01.01.01.01.01.01.01.01.01.01
in T	H (THACH) H H (THACH) H H (TGSTR H33 S (TGSTR, THA NUM
ວ _ະ	1FOLGA = 5 IF(ICALSG(IPRNT), ED, 0)GO TO 20G30 **** AAJASE(*) = AXIAL FORLE BASIC 4.0LOAD 3LGPE PRIJICTION IDSTAP = 33 CALL EININT(301,1,0041,EFP301)
_የ ሳ	TEKSTEDMS - SIPUMS TEKSTEDMS - LEGICALD DE PYI = ALALOGIA 02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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205 CONTINUE
***** AYLASP(*) = AXIAL FORCE INCREHENT-ABJACENT STORE INTERFERENCE
                                                                                                                                         = AXIAL FORUE BASIC AIRLOAU INTERCEST PPEDI'TION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AXBAIF (IMACH) = (CO9ISO + 0EP335) + (1.0 + DEPY1 + DEP308)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            **** AXYSPP(*) = AXIAL FORCE INCREMENTAL-AIRCRAFT YAN SLOPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ++++ AXYSPH(*) = AXIAL FORCE INCREMENTAL-AIRCRAFT YAW SLOPE
++++ PREDISTION (-3S)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (-3S)
IF(SIPUMS.6T.0.3)C1L ThOD(303.2,3,0.6,0.8,0UM1,3EPY1)
*LIMID = AMUDW
RE9304 = 0.0
                                                                                                                                                                                             YLINID = STEDMS

IF (STPOMS.LT.0.4) DESY1 = ALNLOC(306,0.2.3.4.9.1.0UN1)

IF (STPOMS.LT.0.4) DESY1 = ALNLOC(307,0.4.0.7.0.1.0UN1)

XLINID = DUM1

STERNUM (STPOMS.CT.0.7) GO TO 150

CALLININIC(308,1.4AUPH.DEP368)

GO TO 21

THE (DUMI (GE.0.9) GO TO 160

CALLINION (STR.0.1) (STPOMS.C.)

CALLINION (STR.0.1) (STPOMS.C.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TF(XLINTD.GE.0.9.aN).XLINTP. E.0.2)

DEP304 = ALNLOC(304.6.0.0.2,0.1,0UH1)

DEP304 = DEP304 * 440HF

AX3ASP(IHACH) = DEP301 + DEPY1 + DEP304

IOSTAP = 34
                                                                                                                                                                                                                                                                                                                                                                                                                     II (50ki - 65,1,05), 60 TO 180
Dall Thub (508,2,3,3,9,1,05,anupm,06P368)
50 TO 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF(DUM1 .61.1.6) GO TO 230
CALL THOD(308,3,4,1,2,1.6,ANUPM,DEP308)
                                                                                                                                                              XLINTD = SHDARA
DEP3U5 = ALMLOC(305,5.0,30.0,5.0,00M1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (L.EO.1) AXYIPH(IMACH) = DEP310
(L.EO.2) AXYIPP(IMACH) = DEP310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CALL LININT(308,4,4 NUPM, DEP308)
CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IF(DUM1 .GT.1.2) GO TO 190
CALL LININT(308,3,4NUFM,DEP308)
                                                                                                                                                                                                                                                                                                                                                                          ĨĔĸŎŨĦĨĨĠſĬĸĠĸ9)ĠŌĬĠĸĠŶĠĸ
CALL LIŅIĤTK3Ġ8,2,AŸŨ₽Ħ,Đ€P3Ġ8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CALL LININT(309, I, DUM1, LEF309)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3£P338 ≈ 0£P398 * M40HF
                                                                                                                                                 (*)cIvexv
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20460 RETURN
END
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SUBROUTINE ROLMOM

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RULLING MOMENT

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ICASE, ICONFG, IMAGE(9), ISYM, ITILE (36),
NSTRE(40,2), NSTREE(40,2), FXOCHU, REALH(8), SECL,
SPL, SPAT(40,2), STORED, STOREL, SUMPA, TAILPA,
MINGPA, HSS, XCG, XINTFI, XINTFO, YalG, YaL,
YINTFI, MINTFI, MACKET, STORED, SUMPA, TAILPA,
ACKET, MACKET, MACK

CORMONACORSETY

ICALS (7) (IFINO, INPERA (7) (IPRNT ISTARS (46,7) (IDSTAR

COMMON/COMMAC/

3

30

COMMON/COMINC/ JUHI, IMACH, KROTYF(14), NCASE, NGASES (5,94), NUMCAS, NUMCAS, NGASES (5,94), NUMCAS, OJANACH COJMOH/COMROL/ PHBASP (7), RHBAIP (7), RHYIPP (7), RHYIPP (7), RHYIPP (7), RHIAIP (7), RHIAIP (7)

(+98) (-98)

INCREMENT-ADJACENT STORE INTERFERENCE *NONE* = SLOPE PREDICTION RHIAIP(*) = INTERCEPT PREDICTION

9ASIC AIRLOAD
RMAASP(*) = S_DPE PREDICTION
RMAAIP(*) = INTEPLEPT PREDICTION
INCEMENT-AIRCOAF 1 1AN
ANDUE* = SLOFE PREDICTION
PHYIPP(*) = INTERCEPT PREDICTION
PHYIPP(*) = INTERCEPT PREDICTION
PHYIPP(*) = INTERCEPT PREDICTION

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ALAMDA,ALEFIN(S),ALINFI,ALINFO,ALINLT(S),ANOSEL. SDOISO,CLAISO,CLOSAL,DINTFI,DINTFO,HWDHF,

AKBW, AKINTF, AKN, AKNB, AKTB, AKHB, AKHBI,

CO 4MON/COM INF/

23

2

137

IF(ICONFG.EQ.1HX)AREAS = 2.5284 * (AREASP(3,2)+AREASP(4,2))/144.0 IF(ICONFG.EQ.1H+)AREAS=2.0*(AREASP(3,2)+AFEASP(4,2))/144.0 STOTI2 = STORED * 12.0

IF(IDSYM.GT.3) IOSM = 2 IF(ICALSG(IPRNT).£3.0.0R.ICASE.E0.3)60 TO 20000

ISTARS (IDSTR, IMACH) CONTINUE

Four = 6 DS4 = 1

ť

110

COMMON/REMOVZ/ ICAL COMMON/COMSTA/ IST RMBASP (IMACH) = 0.0 RMYIDP (IMACH) = 0.0 RMYIDP (IMACH) = 0.0 RMIAIF (IMACH) = 0.0 RMIAIF (IMACH) = 0.0

5

AREAS = SUMPA / 144.

20

IDSTAR = 40

RMBASF(*) = ROLLING HOPENT BASIC AIRLGAD SLOPE PREDICTION CALL LININT(317,1054,00H1,0EP317)
IF(0UH1.6T.1.2) GO TO 120

52

CALL LININT(318,1,ANUPH,DEP318)

ĬĔſĠŨĦĬĸĠŒĸĠĸŸŊĸĠĠŶIJŦĠŶ CĂĹĹ TĤŎĎſŜĬĠŧĬĸZĸŌĸĠĸĠĸĊĸĊĸĸĸŊĸŊŒ₽ŸIJ ĠĠŢĠŶŶŎ TE(30H1.GT 10.5) GO TO 150 CALL LININT(319.1,CLS L45; DEPY1) GO TO 270

IF (DUMI.GT.0.7) GO TO 170 CALL LININT(319,2,CLSL45,DEFY1) GO TO 270

IF(JJH1,GE,G,9) GO TO 180 CALL LININT(319,2,CLSL45,YDEP1) CALL LININT(320,1,CLSL45,YDEF2) DLPY1 = (YDEP2 - YDE°1) * (9UH1 GO TO 270 170

80

- 0.7) / C.2

IF(0UM1.6T.0.9) G0 T0 190 CALL LININT(320.1.CLSL45,0EPY1) GO TO 270 130

IF(JUM1.GE.1.05) GO TO 200 Call thod(320.1,2,0,9,1.05,CLSL45,DEPY1) 190 607

IF (DUM1.GT-1.05) GU TO 210. CALL LININT(320.2,CLSL45,DEPY1) GO TO 270 210

90

TENDUMINGE 11.2) GO TO 2201 CALL LINING 320-2-0USU45, YDERL) CALL LINING 321, 1, CUSU45, YDERL) DEPT. (YOEP2 | YOEP1) 4. (OUM) 22.9

-1.05) 7.15 + YDEP1

IF(JUH1.0E.1.6) GO TO 240 CALL THOD(321,1,2,1,2,1.6,CLSL45,DEPY1) ÎF(OUMI,GT.1.2) GO TO 270 CALL LININT(321,Î,CLSL45,DEFY1) 230

160

IF(3UM1.bI.1.6)60 TO 25C CALL LININT(321.2,CLSL45,GEPY1) GO TO 270 24.2

165

IF (DUM!.EQ.2.0)50 TO 26C CALL LININT(321.2.CLSL45.YDEF1) CALL LI:INT(322.1.CLSL45.YDEP2) DEPYL = (YDEP2 - YUEP1) * (NUM1 GO TO 270 LININT(322, 1, CLS L45, DEPY1) 260 259

110

4.3 / [9.1 -

CALL LININT(323,1,5120MS,0EP323) PHBAIP(IHACH) = 0EPY1 * 0EP323" * AREAS / SPISTD

138

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0.7 T=1

74/74

SLBROUTINE ROLMOM

PAGE

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* FINITEM (*) = ROLLING MCMENT INCREMENT-AIRCRAFT YAW INTERCEPT

* PREDIOTION

** RHIAIP(*) = ROLLING MOHENT INCREMENT-ADJACENT STORE INTEFFERENCE

INTERCEPT PREDICTION

IF (DINTFI.EG. 0.0.4NJ. DINTFO.EG. 0.0) GO TO 20000
C **** RMYIPP(*) = ROLLING MCMENT INCREMENT-AFFCRAFT YAW INTEPCEPT (*35)
                                                                                                                                                                                                                                                                                                                                                                                             + SLOS45 / SPISTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADJACENT STORE CALCULATIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IF OUNT. GE.0.9) GO TO 345
CALL THOO (NG.1.2) 0.7,0.95510112,0EF327)
CALL THOO (NG.1.7) 2,0.7,0.9510112,0EF327)
CALL THOO (NG.1.7) 1,2,0.7,0.9,5,0EF3291
COTO 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DO 395 NL =IBEGN, IEVD
10STAR = 44
IF(NL-EQ.1) ITP = -1
IF(NL-EQ.2) ITP = 1
NG = 127 * ITF
CALL LININT(326,NL, 50M1, DE9326)
CALL LININT(NG+1, ST57112, DEP327)
CALL LININT(NG+1, ST57112, DE9327)
CALL LININT(NG+1, ST57112, DE9327)
CALL LININT(NG+117+1, ST50MS, DE9329)
CALL LININT(NG+117+1, ST50MS, DE9329)
CALL LININT(NG+117+1, TF0MS, DE9329)
CALL LININT(NG+117+1, TF0MS, DE9329)
CALL LININT(NG+117+1, TF0MS, DE9329)
                                                                                                      8b IF (JUHI.GE.0.9) GO TO 250
CALL THOD (325.1.2.).7.0.9, ANUPH.DEP325)
GO TO 315
GO TO 315
GALL LININI(325,2,ARUPH.DEP325)
GO TO 315
                                                                                                                                                                                                                                                                                        TE.UUHI.GT.Q.1) 60 to 355
CALL LIMINT(NG*Z.STOTAZ.OEP3ZZ)
CALL LIMINT(NG*ITP.Z.STPOMS.OEP3ZS)
CALL LIMINT(NG*ITP*ZITPOMS.OEP3ZS)
CO TO 390
                                                                                                                                                                                                                                                      CALL LININI(325,3,440PM,0EP325)
                                                     IF(JUP1.61.67.7) GO TO 286
CALL LININT(325.1,ANUPM,OEP325)
GO TO 315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IF (DUM1.GE.1.2) GO TO 365
                                          IDSIAR = 42
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31<u>5</u>
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              115
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CALL LININT(NG,4,ST3)12,DEP327)
IF (NL-63.1)CALL LININT(NG+ITP,3,STP3MS,DEF328)
IF (NL-63.2)CALL LININT(NG+ITP,4,STP3MS,DEF328)
CALL LININT(NG+ITP+ITP,4,CLSL45,DEP329)
RMIAIP(LMACH) = RMIAIP(JMACH) + (DEP326 + DEP327 + DEP328
GEF329) * AREAS CALL THOD (NG,2,3,0,9,1,2,SID112,DEF327)
CALL THOD (NG+ITP,2,3,0,9,1,2,SIPDNS,DEP322)
CALL THOD (NG+ITP+ITP,2,2,3,0,9,1,2,SIPDNS,DEP322)
CALL THOD (NG+ITP+ITP,2,2,3,0,9,1,2,CLSLu5,DEP322)
CO TO 390
CALL LININT(NG+ITP,3,SIDIA,2,DEP327)
CALL LININT(NG+ITP,3,SIDIA,2,0,EP329)
CALL LININT(NG+ITP,3,SIDIA,2,0,EP329)
CALL THOD (NG,3,3,4,1,2,1,2,1,2,1,6,CLSLu45,DEF328)
IF (NL,EQ,2,CALL LININT(NG+ITP,3,4,1,2,1,6,CLSLu45,DEF329)
CALL THOD (NG+ITP+ITP,3,4,1,2,1,6,CLSLu45,DEF329)
CALL THOD (NG+ITP+ITP,3,4,1,2,1,6,CLSLu45,DEF329)
CALL THOD (NG+ITP+ITP,3,4,1,2,1,6,CLSLu45,DEF329) 395 CONTINUE PHIAIP (IMACH) / SRISTO 20-03 RETURN 330 K 385 37.5 365

180

175

1.00 A

196

PAGE

FIN 4.5+413

これのことのことのできることととながりんとなることであった。

FUNCTION ALNEOG

1=140 74/74

THIS ROUTING LOOKS UP A DESCRICENT VALUE FROM THE OWING ASSESSED IN THE GRAPH BEING CONSIDERED THE CRAPH BEING CONSIDERED THE XIN = ENDING YALUE XIN = ENDING YALUE

FUNCITION ALMLOCKNGDAP 4. XLO XXIII XING XXING)

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COMMONZUUMMACZ XLINED

XLOW = XLO XHIGH = XINC + XLOW LINF = 1 LINEP1 = 2

\$2

105

IF(XLINTG-GE,XHI) LINF = (XHI - XLOW) / XINC + 1.
IF(XLINTG-LE,XLOM-03,XLINTD-GE,XHI)GU TO 105
IF(XLINTG-GT,XLOM-)GD TO 110
CALL LININT(NGRAPH,LINF,XIND,YDEP)
GO TO 130

20

25

30

110 IF (XUINTO GE, XHIGH) GO 10 120 CAULTHOO (NGRAP4. UINE PI, XLOH, XHIGH, XIRO, YDE?) CO 10 130 CO 10 130 CINE = XHIGH CO 10 100 130 ALNLOC = YOEP RETURN

0FT=1

72/72

SUBROUTINE BREAKF

THIS SUBROUTINE FINDS THE HIGH AND LOW RACH NUMBERS
THIS SUBROUTINE FINDS THE HIGH AND LOW RACH NUMBER BEING OBSERVED LIES,
BETHER WHICH ITHE MACH NUMBER BEING OBSERVED LIES,
IF THE STODIED HOLF NUMBER IS ABOVE THE MAXIMUM GRAPH
LINE PRESENT ON THE GPAFF, THE POINT CORRESPONDING TO
THE MAXIMUM LINE, AILL BE USED.
COMMON/COMINC/ DUMI, I MACH, KADI, P(14), NGASL, NGASES(5,94), NUMCAS,
COMMON/COMINC/ DUMI, I MACH, KADI, P(14), NGASL, NGASES(5,94), NUMCAS. IF(JUH1.GI.XLO.AND.)UH1.LE.XHI)69 TO 218 CONTINUE JUHN = JUMP + 1 DO 110 I=1.1END
IF(I.6T.1,60 TO 120
CALL LININT(NGRAPH:, XIND,XHI)
IF(DUMI,L.E.XHI) GO TO 20
O XEO = XHI
CALL LININT(NGRAPH:I+1,XIND,XHI)
JUMP = I PETURE 110 0.01 6.0000000

XLO = - DUM1 RETU^ON END

260

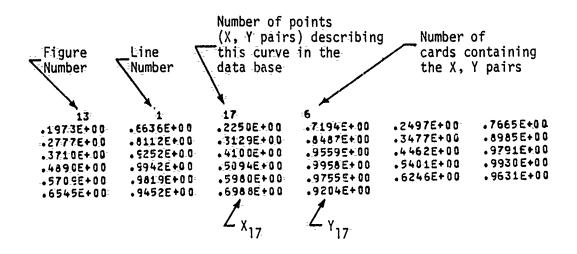
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DIGITAL DATA BASE LISTING

Presented below is a brief description of the format for each graph in the digital data base.



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.30145+90 .42335+00 .53965+00	.2000E+00 .5000E+00 .8000E+00 .1100E+01	.3018E+00 .4460E+00 .5405E+00 .5799E+00 .6036E+00 .6319E+00		.1128403 .17578403 .10398403		.2344E+01 .2344E+01 .2517E+01	.9545E+02 .1213E+03 .1405E+03 .1542E+03 .1556E+03 .1017E+03
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		22 2566E+0 4012E+0 5056E+0 5693E+1 5982E+0 6199E+0	22 .3022E+00 .5016E+00 .6982E+00 .1067E+01 .1207E+01		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.11415-02 .11415-03 .13436-03 .15315-03 .16035-03 .19336-63
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52 • 75806+02 • 90726+03 • 11116+03 • 1116+03 • 12646+03 • 15466+03 • 15466+03 • 16516+03 • 16516+03 • 16516+03	### ### ### ### #### #### ############	27 5754E-01 3517E-01 1052E+00 1199E+00 1328E+00 1386E+00 1412E+00	1626-02 92256-02 10336-03 11346-03 12346-03 12916-03 17106-03 17106-03 18086-03	. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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- 8240E+02
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-,7068E+0C ,2005E+0C ,1333E+01	.4650E-02 .4671E-02 .403E-02 .4103E-02 .4713E-02 .3713E-02 .3697E-02	2336E+0 11619E+0 11629E+0 11629E+0 11639E+0 1163E+0 13944E+0 13946E+0 13940E+0 13940E+0 13940E+0 13940E+0 13940E+0 13940E+0 13940E+0 13940E+0	.9372E+00 .6617E+00 .418&E+00 .2142E+00 .7963E-01 0. .7963E+00 .7964E+00 .1138E+01 .1138E+01 .139E+01	.9991E + 0G .8853E E + 0G .8953E E + 0G .8953E E + 0G .8959E E + 0G .2376E + 0G .2376E + 0G .1966E + 0
.13748+03 .16328+03 .10858+03	.3031E+00 .3783E+00 .4405E+00 .5038E+00 .5038E+00 .56213E+00 .5770E+00	2 4 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	.2318E+02 .2543EF+02 .2543EF+02 .2649EF+02 .2745EF+02 .2745EF+02 .2600EF+02 .4970EF+02 .6746EF+02 .7347EF+02 .8466EF+02 .8466EF+02 .8466EF+02 .8466EF+02	.2876E+00 .4175E+00 .4175E+00 .5036E+00 .5036E+00 .5796E+00 .5968E
93175+06 11245+30 89955+00 -13555+01	.4662E-02 .435E-02 .4336E-02 .3380E-02 .33800E-02 .3261E-02	20020000000000000000000000000000000000	7 .10015+01 .76445+00 .27495+00 .11395+00 .79635-00 .80065+00 .82555+00 .82555+00 .8255+00 .1045+01 .13215+01	11 • 3991E+00 • 9744E+00 • 9744E+00 • 8245E+00 • 6004E+00 • 3221E+00 • 2647E+00 • 1627E+00 • 1627E+00
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.9697E+02 .1192E+03 .1192E+03 .1544E+03 .1702E+03 .1677E+03	.4520E-01 .1180E+00 .130AE+00 .100E+01 .1137E+03 .1567E+03	93356+0 1364+0 1364+0 1364+0 1364+0 1364+0 1006+0 1006+0	1168 E + 03 1166 E + 03 1166 E + 03 1166 E + 03 1196 E + 03 1108 E + 01 11229 E + 01 11229 E + 01 1123 E + 01 1123 E + 01 1123 E + 01 1123 E + 01	.8745E+02 .9972E+02 .1130E+03 .1324E+03 .16062+03 .1901E+03 .175E+00 .1371E+00	.9876E+02 .1250E+03 .1362E+03 .1495E+03
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146E+03 - 13836 237E+03 - 5594 344E+03 - 5435 501E+03 - 4715 670E+03 - 4715 670E+03 - 7992	234E+02 -3327 234E+03 -2204 234E+03 -2769 333E+03 -2601 695E+03 -2601 695E+03 -2601 499E+03 -2984 499E+03 -2984 499E+03 -2984	986 + 03	95E+02309 51E+03 .118 77E+03 .5.395 30EE+03 .4.99 30EE+03 .4.99 77E+034.19 91E+03554 01E+03674 11	552E+02 -718 201E+03 -718 201E+03 -545 306E+03 -545 306E+03 -545 536E+03 -545 536E+03 -345 636E+03 -345 636E+03 -345 62E+03 -345 62E+03 -345 62E+03 -345
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445649	5169F-0	10346+0	16305-0	1118E+0	.2664E+0.
11666+03	3340E-03	.12146+03	.3777E-03	.1244E+83	.3857E-03
24.5E+0	4175E-0	1284E+0	4175E-0	1305E+0	3976E-0
1330E+0	3936E-0	1394E+0	3618E-0	14425+9	3141E-U
1503E+0	2266E-0	15446+0	-1/105.0	1290E+U	1879F-0
16192+0	3380F-0	18645+0	4453E-1	19196+0	5765E-0
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203		22			
90215+0	1825E+0	8404E+0	15905+0	90665+0	1243540
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12915+0	28465-0	1328E+0	20446-0	1391E+0	.5611E-0
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Color	Color	E+0	2390E-0	10336+0	75705-0	1066E+0	1394E-0
Colored Colo	Feb 3	E+0	1594E-0	1100E+0	17535-0	111454	コインシピーロ
Color	Color	E+0	1753E-0	11526+0	17535-0	11726+0	15146-0
### 1234 ### 12	### 1239E 04	6+0	1195E-0	1220E+0	•11955-E	1238540	013000.
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### 137 Fe 0.3 Fe	\$\begin{align*} \text{Equation*} & 2.20 & 2.6 &	E + 3	.2300E-0	1935E+0	12212	1 30251	
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E 013 1123 E 02 1142 S E 03 1145 E 02 1140 S E 03 1142 S E 04 142	E 013 11291E-02 11423E-03 1141E-02 11401E-03 1719FE-03 1719FE-03 1719FE-03 1745E-03	÷.	13746-0	1089E+0	10515-0	1128E+0	11316-0
E 61 3 3130E 6 2 145E 6 13 3737E 7 2 1453E 6 13 4756E 6 16 16 36 2 13 7 12 2 2 16 3 2 13 7 2 2 16 3 2 2 13 7 2 2 16 3 2 2 13 7 2 2 16 3 2 2 13 7 2 2 16 3 2 2 13 7 2 2 16 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E 61 3 3030E 0 2 1452E 0 3 3737E 0 2 1453E 0 3 4566E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E+0	1293E-0	12555+0	18185-0	1307E+0	21825-0
E+03	E 60 3 .5172E 0 2 .150 G 6 0 3 .53 0 3 .719 G 6 0 3 .719 G 6 0 3 .150	0+3	3030E-6	14236+0	3717E-0	14836+0	4566E-0
E+03	E+03	E+0	5172E-0	1588E+0	5 30 3 5- 0	1 65 3 6+ 0	7192E-0
E+03	### 13.00	E+0	7838E-0	1750E+0	87275-0	18115+0	9818E-0
\$\begin{array}{c} \text{2} & \text{2} & \text{4} & \text{2} & \text{4} & \text{2} & \tex	\$\begin{array}{c} \text{2} & \tex	8E+0	1079E-6	19346+0	11845-0	19966+0	1325E-0
E+0391277E-04 .9944E+025275E-04 .9947E+027433E-0 E+039131E-04 .9976E+031231E-03 .1141E+031143E-0 E+039191E-04 .1199E+031231E-03 .1141E+031143E-0 E+039191E-04 .1199E+031231E-03 .1141E+031143E-0 E+039191E-04 .1199E+031231E-04 .1255E+03 .12046E-03 E+03 .9915E-04 .1199E+03 .1319E-03 .1191E+03 .12046E-03 E+03 .9915E-04 .1294E+03 .1319E-04 .1255E+03 .2046E-03 E+03 .9915E-03 .1294E+03 .1319E-03 .1395E+03 .2046E-03 E+03 .9915E-03 .1294E+03 .7473E-03 .1095E+03 .2046E-03 E+03 .9926E-02 .1294E+03 .7473E-03 .1095E+03 .9926E-03 .1995E-03 .1999EE-03 .1995E-03 .1	E+023277E-04	5		52	0		
E+039931E-04 .9976E+021063E-03 .1023E+031143E-0 E+031199E-03 .1126E+031231E-04 .1125E+031247E-0 E+039910E-04 .1129E+031231E-04 .1125E+031247E-0 E+039910E-04 .1129E+031439E-04 .1226E+031246E-0 E+03 .9926E-04 .1294E+03 .3139E-04 .1225E+03 .1346E-0 E+03 .8926E-03 .1996E+03 .3139E-03 .1996E+03 .4246E-0 E+03 .8926E-02 .1843E+03 .5690E-02 .9537E+02 .4569E-02 .8659E-02 .164EE-03 .1516E-03 .1996E+03 .4569E-02 .166EE-03 .1516E-03 .1996E+03 .4669E-02 .1002E-02 .166EE-03 .3367E-02 .1996E+03 .4669E-03 .196E-03 .196E-03 .196E-03 .196E-03 .1996E+03 .5259E-03 .196E-03 .	E+03 -9431E-04 -9976E+02 -1063E-03 -1023E+03 -1143E-05 -1143E-04 -1149E-03 -1169E+03 -1124E-03 -1149E-03 -1149E-03 -1169E+03 -1226E+03 -1149E-05 -1149E-05 -1169E+03 -1169E+03 -1149E-05 -1169E-04 -1169E+03 -1169E+03 -1169E+03 -1169E-05 -1169E-04 -1169E-04 -1169E-04 -1169E-05 -	75+0	127775-0	A4447+0	.5275E- 0	99475+0	.7433E-0
Feed a	E+03 -1199E-03 -1169E+03 -1231E-03 -1169E+03 -1167E-03 -1169E+03 -1126E-03 -1169E+03 -1126E-03 -1169E+03 -1126E-03 -1169E+03 -1126E-03 -1169E+03 -166E-03 -16	, d	90216-0	99766+8	10635-0	1023E+0	.1143E-0
E+03 -41268E-04 -1199E+03 -11231E-03 -1144E+03 -1187E-04 -1268E-04 -1199E+03 -1231E-04 -1256E+03 -1266E-04 -1266E-03 -1319E-03	E+03 -1268E-04 -1199E+03 -1231E-03 -114/E+03 -118/7E-04 -1266E-04 -1266E-04 -1299E+03 -1319E-03	100	019071	10695+0	12316-0	10895+0	.1247E-0
E+03 -9910E-04 -1294E+03 -1439E-04 -1325E+03 -17193E-0 E+03 -7952E-04 -1294E+03 -1439E-03 -1505E+03 -1918E-0 E+03 -8952E-04 -1294E+03 -1349E-03 -1505E+03 -1918E-0 E+03 -8952E-04 -1962BE+03 -1349E-03 -1966E+03 -1918E-0 E+03 -8952E-04 -1962BE+03 -1969BE+03 -1966E-03 -1966E-0 E+03 -8952E-02 -1966E-03 -1966E+03 -1966E+03 -1966E-0 E+03 -8952E-02 -1161E+03 -5903E-02 -1963E+03 -1964E-0 E+03 -8952E-02 -1161E+03 -5903E-02 -1963E+03 -1964E-0 E+03 -1966E-01 -1720E+03 -1347E-01 -1941E+03 -1964E-0 E+03 -1966E-01 -1720E+03 -1347E-01 -1941E+03 -1964E-0 E+03 -1966E-01 -1720E+03 -1347E-01 -1941E+03 -1964E-0 E+03 -1966E-03 -1966E-03 -1656E-03 -1669E-0 E+03 -1966E-03 -1966E-03 -1666E-03 -1666E-0 E+03 -1966E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1966E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1966E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1796E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1866E-03 -1666E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1966E-03 -1666E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1666E-03 -1666E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1666E-03 -1666E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1666E-03 -1666E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1866E-03 -1666E-03 -1666E-03 -1666E-03 -1666E-0 E+03 -1666E-03 -1	E+03 -4556E-04 -1294E+03 -1439E-04 -1325E+03 -1918E-0 E+03 -7456E-04 -1294E+03 -1439E-04 -1325E+03 -1918E-0 E+03 -7951E-03 -194E+03 -1349E-03 -196E+03 -1918E-0 E+03 -6951E-03 -194E+03 -1969E-03 -196E+03 -1966E-0 E+03 -6951E-03 -1946E+03 -1969E-03 -196E+03 -1966E-0 E+03 -6951E-02 -1946E+03 -1949E-03 -196E+03 -1966E-0 E+03 -6951E-02 -1946E+03 -1949E-03 -1966E+03 -1966E-0 E+03 -6951E-02 -1946E+03 -1949E-03 -1969E-03 -1969E-0 E+03 -1966E-03 -1951E-04 -1951E-04 -1965E+03 -1969E-0 E+03 -1966E-01 -1951E+03 -1299E-03 -1969E-03 -1969E-0 E+03 -1966E-03 -1951E-04 -1299E-03 -1969E-03 -1969E-0 E+03 -1966E-03 -1951E-04 -1299E-03 -1969E-03 -1969E-0 E+03 -1966E-03 -1969E-03 -1969E-03 -1969E-03 -1969E-0 E+03 -1969E-03 -1		DE 200	4 4 2 2 5 4 0	12415-0	11415+0	11675-0
E	E + 03		12036-0	1100610	11111100	1225F+0	71935-0
E+03 -74592E-04 -1446E+03 -1319E-03 -1512E+03 -7410E+03 -7592E-04 -1446E+03 -33179E-03 -1512E+03 -7410E+03 -7410E+03 -1592E-03 -1393E-03 -1396E+03 -1512E+03 -7410E+03 -7410E+03 -7410E+03 -7410E+03 -1592E-04 -1492E+03 -7473E-02 -1692E+03 -1492E+03 -7473E-02 -1692E-03 -1492E+03 -7473E-02 -1692E-03 -1496E+03 -7473E-02 -1496E+03 -1496E+03 -1496E-03	E+03 -74592E-04 -1458E+03 -1319E-03 -1512E+03 -2046E-03 -7992E-04 -1458E+03 -33179E-03 -1512E+03 -2050E-03 -4010E-03 -4010E-03 -7992E-03 -1998E+03 -3599E-03 -1996E+03 -5992E-03 -4010E-03	. ה ה	0-30766	1139540	0-14006	1 1 2 2 5 5 6 0	19185-0
E+03	E+03) L	4120514	12.945.40	0-100+6	10000	20465-0
E+03 .4915E=03 .1948E+03 .3317=03 .1096E+03 .4100E=03 .4915E=03 .1948E+03 .3517=03 .1096E+03 .4518E+03 .4518E+03 .5690E=03 .1096E+03 .6530E=0 .2593E=02 .1096E+03 .6530E=0 .1046E+03 .5690E=03 .1096E+03 .6530E=0 .1046E+03 .5691E=03 .1096E+03 .6552E=0 .1046E+03 .5691E=03 .1096E+03 .6552E=0 .1046E+03 .5691E=03 .1062E=02 .1062E=02 .1046E+03 .4669E=02 .1062E=02 .1062E=02 .1062E=03 .1446E=03 .1466E=03 .1466E=03 .1466E=03 .1466E=03 .1466E=03 .1466E=03 .1466E=03 .1666E=03 .1666E=0	E+03	95+0	1592E-U	144014	10142101	27761	
E+03 +6915E-03 +1843E+03 +7473E-03 +1090E-03 +6915E-03 +69915E-03 +1998E+03 +7473E-03 +1090E-03 +69915E-03 +6998E+03 +6998E-02 +6958E-02 +6958E-02 +6958E-02 +6958E-02 +6958E-02 +6958E-02 +6958E-03 +6968E-03 +6968E-03 +6968E-03 +6968E-03 +10968E-03 +10968E-03 +10968E-03 +10968E-03 +1998E-03 +1998	E+03	E+0	2757E-0	1528E+0	331750		110000
E+03 .6953E-03 .1998E+03 .7473E-03 .9537E+02 .5611E-0 E+03 .4529E-02 .8658E+02 .5050E-02 .1063E+03 .6052E-0 E+03 .5892E-02 .1646E+03 .5571E-02 .1063E+03 .4669E-0 E+03 .5892E-02 .1249E+03 .3367E-02 .1305E+03 .4669E-0 E+03 .4062E-02 .1249E+03 .3367E-02 .1305E+03 .1344E-0 E+03 .4062E-02 .1249E+03 .3367E-02 .1305E+03 .1344E-0 E+03 .4066E-01 .1720E+03 .1347E-01 .1763E+03 .1619E-0 E+03 .1954EE-03 .1515E+03 .1246E+03 .1619E+03 .1619E-0 E+03 .1056E-03 .1515E+03 .1299E-03 .1616E+03 .2351E-0 E+03 .2159E-03 .1515E+03 .1276E-03 .1916E+03 .2351E-0 E+03 .2159E-02 .1502E+03 .3103E-02 .1916E+03 .2351E-0 E+03 .2159E-02 .1502E+03 .3103E-02 .1916E+03 .2351E-0 E+03 .2159E-03 .1516E+03 .3103E-02 .1916E+03 .2351E-0 E+03 .2159E-03 .1139E+03 .3103E-02 .1916E+03 .2351E-0 E+03 .2159E-03 .1139E+03 .3175E-03 .1121E+03 .1270E-0 E+03 .2150E-03 .11175E-03 .1121E+03 .1270E-0 E+03 .2150E-03 .1101E+03 .1317E-03 .1310E-03 .1310	E+03 .6953E-03 .1998E+03 .7473E-03 .9537E+02 .9511L-0 E+03 .8658E+02 .8658E+02 .1056E-02 .1056E+03 .6595E-02 .1056E-03 .4669E-03 .6293E-02 .1056E-03 .4669E-03 .4669E-03 .4669E-03 .1266E-02 .1269E-02 .1269EE-03 .1494E-03 .4669E-03 .1464E-03 .1266E-02 .1269E-03 .1464E-03 .4669E-03 .1466E-03 .1464E-03 .1464E-03 .1464E-03 .1464E-03 .1464E-03 .1464E-03 .1464E-03 .1464E-03 .1464E-03 .166E-03 .166	D + 3	4915E-0	13435+0	0-20696	1030510	22250
\$6586.02	\$69	E+0	69536+0	1998E+0	74735-0		
E+03 -4529E-02 -8658E+02 -5050E-02 -9537F+02 -5052E-0 E+03 -5042E-02 -1046E+03 -557FE-02 -106E+03 -6052E-0 E+03 -5046E-02 -1249E+03 -557FE-02 -1305E+03 -4659E-0 E+03 -4246E-02 -1249E+03 -3367E-02 -1305E+03 -4344E-0 E+03 -3766E-02 -1249E+03 -3407E-02 -1405E+03 -4956E-0 E+03 -3766E-02 -1249E+03 -527E-02 -1405E+03 -4956E-0 E+03 -1024E-01 -1972E+03 -524E-01 -1941E+03 -1924E-0 E+03 -2709E+01 -1972E+03 -2224E-01 -1941E+03 -3655E-0 E+03 -2709E+01 -1972E+03 -1299E-03 -1655E+03 -9704F-0 E+03 -2709E+03 -1515E+03 -1299E-03 -1655E+03 -9704E-0 E+03 -2159E-03 -150E+03 -1697E-03 -1946E+03 -2024E-0 E+03 -2159E-03 -150E+03 -1875E-02 -1904E+03 -3655E-0 E+03 -2159E-03 -120EE+03 -3105E+03 -3575E-0 E+03 -2150E-03 -120EE+03 -3105E+03 -31270E-0 E+03 -2100E-03 -1101E+03 -1276E-03 -1276E-0 E+03 -2100E-03 -1101E+03 -1277E-03 -1101E+03 -31270E-0 E+03 -2100E-03 -1101E+03 -1277E-03 -1121E+03 -31310E-0 E+03 -2100E-03 -1101E+03 -1277E-03 -1121E+03 -31270E-0 E+03 -3100E-03 -1101E+03 -1277E-03 -1121E+03 -31270E-0 E+03 -3100E-03 -1101E+03 -1277E-03 -1121E+03 -31310E-0 E+03 -3100E-03 -3101E+03 -3127E-03 -31270E-0 E+03 -3100E-03 -3101E+03 -3127E-03 -31270E-0 E+03 -3100E-03 -3101E+03 -3127E-03 -31270E-0 E+03 -3100E-03 -3100E+03 -3127E-03 -31270E-0 E+03 -3100E-03 -3100E+03 -3237E-03 -3300E+03 -3300E-03 -3300E	E+13	8	~	ß			, , ,
E+03 .5812E-02 .1046E+03 .6293E-02 .1095E+03 .6095E-02 .1269E+03 .56992E-02 .1269E+03 .4569E-03 .4569E-03 .4369E-02 .1363E+03 .3567E-02 .1369E+03 .4569E-03 .1363E+03 .3567E-02 .1369E+03 .1369E-03	E+03 .5812E-02 .1046E+03 .6293E-02 .1095E+03 .6095E-02 .1269E+03 .55092E-02 .1269E+03 .55092E-02 .1269E+03 .1367E-03 .1367E-03 .1367E-03 .1368E-03 .1383E+03 .5216E-02 .1383E+03 .3367E-02 .1424E+03 .1368E-02 .1521E+03 .1367E-02 .1606E+03 .1424E+03 .1924E-03 .1924E-01 .1926E-01 .1926E-01 .1924E-01 .1924E-01 .1924E-01 .1926E-01 .1926E-01 .1926E-01 .1926E-01 .1941E+03 .1619E-03 .1619E-01 .1941E+03 .1619E-03 .1619E-03 .1626E-01 .1941E-03 .1626E-01 .1956E-03 .1626E-01 .1941E-04 .9996E+02 .3665E-01 .1941E-03 .1626E-03 .1636E-03 .1636E-03 .1636E-03 .1636E-03 .1636E-03 .1636E-03 .1636E-03 .1636E-03 .1636E-03 .1936E-03 .1336E-03 .1337E-03 .1337E-03 .13316E-03 .1331	E+0	4529E-0	8658E+0	5050E-0	95376+0	56115-0
E+03 .5092E-02 .1161E+03 .5571E-02 .1195E+03 .4069E-02 .1248E-02 .1249E+03 .3367E-02 .1305E+03 .4344E-02 .1363E-02 .1249E-03 .4344E-02 .1363E-02 .1249E-03 .1344E-02 .1363E-01 .1720E+03 .5216E-02 .1763E+03 .1658E-03 .1658E-01 .1720E+03 .1347E-01 .1763E+03 .1658E-03 .1658E-03 .1658E-03 .1515E+03 .2248E-01 .17648E-03 .2421E-04 .1777E+03 .1705E-04 .1777E+03 .1705E-04 .1777E+03 .1705E-03 .1515E+03 .1705E-03 .1515E+03 .1705E-03 .1515E+03 .1705E-03 .1515E-04 .1777E-03 .1658E-03 .1515E+03 .1859E-03 .1859E-03 .1859E-03 .1865E-03 .1866E-03	E+03 .5692E-02 .1161E+03 .5571E-02 .1195E+03 .4664E-02 .1249E+03 .3567E-02 .1305E+03 .1344E-03 .1364E-02 .1364E-02 .1364E-02 .1364E-03 .1464E-02 .1364E-03 .1464E-02 .1364E-03 .1464E-03 .1664E-03 .1464E-03 .1664E-03 .	E+0	5812E-0	10466+0	62935-0	1083E+0	6952E-0
E+03 -4248E-02 -1249E+03 -3367E-02 -1305E+03 -1344E-0 E+03 -1002E-02 -1383E+03 -4409E-03 -1424E+03 -1964E-0 E+03 -1006E-01 -1720E+03 -1347E-01 -1761E+03 -1619E-0 E+03 -1976E-01 -1903E+03 -1347E-01 -1941E+03 -1619E-0 E+03 -2796E-01 -1903E+03 -2224E-01 -1941E+03 -2421E-0 E+03 -2796E-01 -1903E+03 -2224E-01 -1941E+03 -2421E-0 E+03 -2796E-01 -1903E+03 -2224E-01 -1941E+03 -2421E-0 E+03 -1076E-03 -1177E+03 -7012E-04 -1275E+03 -9004E-0 E+03 -1076E-03 -1515E+03 -1299E-03 -1640E+03 -2024E-0 E+03 -2159E-03 -1290E+03 -1299E-03 -1916E+03 -2024E-0 E+03 -2159E-02 -1202E+03 -3103E-02 -1904E+03 -5175E-0 E+03 -2421E-04 -2562E+03 -1276E-02 -1904E+03 -2351E-0 E+03 -2159E-02 -1202E+03 -2317E-02 -1904E+03 -5175E-0 E+03 -2421E-04 -2562E+03 -1175E-03 -1906E+03 -2351E-0 E+03 -2159E-02 -1202E+03 -2317E-03 -1276E-0 E+03 -2102E-03 -1101E+03 -1175E-03 -1121E+03 -1310E-0 E+03 -1302E-03 -1101E+03 -1276E-03 -1276E-03 -1310E-03 -1310E-	E+03	£+0	58926-0	11615+0	55715-0	11955+0	4669E-0
E+03 - 1002E-02	E+03 -1002E-02 .1383E+03 -4409E-03 .1424E+03 -1924E-0 E+03 -1968E-01 .1720E+03 -1347E-01 .1763E+03 -1618E-0 E+03 -1924E-01 .1903E+03 -1347E-01 .1941E+03 -1618E-0 E+03 -2709E+01 .1903E+03 -2224E-01 .1941E+03 -1618E-0 E+03 -1926E-03 .1873E+03 -1299E-03 .1629E+02 -1976E-0 E+03 -1665E-03 .1833E+03 -1877E-03 .1625E+03 -1516E-0 E+03 -1665E-03 .1833E+03 -1877E-03 .1916E+03 -2024E-0 E+03 -2159E-02 .1802E+03 .1875E-02 .1906E+03 .2024E-0 E+03 -2629E-02 .1802E+03 .3108E-02 .1904E+03 .2024E-0 E+03 -2629E-02 .1899E+03 .3108E-03 .1906E+03 .2076E-0 E+03 -2629E-02 .1799E+03 .3108E-03 .1055E+03 .121EE+03 .2076E-0 E+03 -2189E-02 .1799E+03 .2175E-02 .1904E+03 .2076E-0 E+03 -2189E-02 .1799E+03 .2176E-02 .1904E+03 .2076E-0 E+03 -21808E-03 .1019E+03 .2176E-03 .1056E+02 -7540E-0 E+03 -21808E-03 .1019E+03 .2176E-03 .1056E+02 -7540E-0 E+03 -21808E-03 .1019E+03 .2176E-03 .1056E+03 .2276E-0	E+0	4248E-0	1249E+0	3367E-0	1305E+0	13446-0
E+03 -3768E-02 -1521E+03 -5216E-02 -1601E+03 -8858E-0 E+03 -1066E-01 -1720E+03 -1347E-01 -1763E+03 -1619E-0 E+03 -2709E-01 -1903E+03 -124E-01 -1941E+03 -2421E-0 E+03 -2709E-01 -1903E+03 -2224E-01 -1941E+03 -2421E-0 E+03 -2709E-01 -1903E+02 -2151E-04 -9996E+02 -3665E-0 E+03 -1076E-03 -1515E+03 -1299E-03 -1675E+03 -1516E-0 E+03 -2159E-03 -1535E+03 -1675E-03 -1656E+03 -2024E-0 E+03 -2159E-03 -1656E+02 -1677E-03 -1916E+03 -2024E-0 E+03 -2629E-02 -1606E+02 -1677E-03 -1916E+03 -2351E-0 E+03 -3944E-02 -1799E+03 -3109E-02 -1904E+03 -6175E-0 E+03 -5456E-03 -1199E+03 -1175E-03 -1055E+03 -1270E-0 E+03 -1302E-03 -1101E+03 -1175E-03 -1121E+03 -1270E-0 E+03 -1302E-03 -1101E+03 -1276E-03 -1270E-0 E+03 -1302E-03 -1101E+03 -1276E-03 -1270E-0 E+03 -1302E-03 -1101E+03 -1276E-03 -1270E-0	E+03 -3768E-02 .1521E+03 -5210E-02 .1601E+03 -8858E-0 E+03 -1066E-01 .1720E+03 -1347E-01 .1761E+03 -1619E-0 E+03 -12709E-01 .1903E+03 -1234F-01 .1941E+03 -1619E-0 E+03 -2709E-03 .1515E+04 .1275E+03 -1265E-0 E+03 -1076E-03 .1515E+03 -1299E-03 .1625E+03 -1256E-0 E+03 -2159E-03 .1515E+03 -1299E-03 .1625E+03 -1256E-0 E+03 -2159E-03 .1833E+03 -1875E-03 .1916E+03 .2024E-0 E+03 -2159E-02 .1906E+02 .1875E-02 .1906E+03 .2351E-0 E+03 -2159E-02 .150EE+03 .3108E-02 .1904E+03 .2351E-0 E+03 -2159E-03 .139E+03 .3108E-03 .1055E+03 .1276E-0 E+03 -3944E-02 .1799E+03 .3108E-03 .1055E+03 .1276E-0 E+03 -3944E-02 .1799E+03 .5737E-02 .1904E+03 .2351E-0 E+03 -41310E-03 .1103E+03 -1175E-04 .9105E+02 -17540E-0 E+03 -1306E-03 .1103E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1105E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1105E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1152E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1152E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1152E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1105E+03 -1175E-03 .11055E+03 -1270E-0 E+03 -1306E-03 .1105E+03 -1175E-03 .11056E+03 -1270E-0 E+03 -1306E-03 -1152E+03 -1175E-03 .11056E+03 -1270E-0	E+0	1002E-0	1383E+0	0-36044.	1424E+0	.1924E-0
E+031066E-01 .1720E+031347E-01 .1783E+031619E-0 E+031924E-01 .1903E+032224E-51 .1944E+032421E-0 E+032709E+01 .1903E+022151E-04 .9996E+023665E-0 E+031076E-03 .1575E+031299E-03 .1625E+031204E-0 E+031665E-03 .1515E+031299E-03 .1655E+031204E-0 E+032159E-03 .1535E+031857E-03 .1916E+032024E-0 E+032159E-03 .1502E+031300E+032024E-0 E+032159E-03 .1502E+03 .3109E+03 .4900E-0 E+032150EE-03 .1996E+03 .3109E+03 .4900E-0 E+032150E-03 .1996E+03 .3175E-03 .1055E+031270E-0 E+031302E-03 .1101E+031175E-03 .1121E+031270E-0 E+031302E-03 .1101E+031246E-03 .1270E-0 E+031302E-03 .1101E+031246E-03 .1270E-0 E+031302E-03 .1101E+031246E-03 .1270E-0	E+031066E-01 .1720E+031347E-01 .173E+031619E-0 E+031924E-01 .1903E+032224E-51 .1941E+032421E-0 00	E+0	.3768E-0	1521E+0	.52165-0	1601E+0	.88586-0
E+031924E-01 .1903E+032224E-51 .1941E+032421E-0 E+032709E+01	E+031924E-01 .1903E+032224E-51 .1941E+032421E-0 E+032709E+01	E+0	.1086E-0	1720E+0	.1347E-0	1783E+0	.1619E-0
E+032709E+01 13 5 5 151E+04 .9996E+023665E-0 E+031076E-03 .1515E+037012E-04 .1275E+039904E+05 E+031076E-03 .1515E+031299E-03 .1625E+039904E+05 E+032159E-03 .1633E+031699E-03 .1916E+032024E-0 E+032169E-03 .1633E+031657E-03 .1916E+032024E-0 E+032169E-02 .1601E+03 .3108E-02 .1301E+03 .2351E-0 E+03 .3944E-02 .1501E+03 .3108E-02 .15916E+03 .96175E-0 E+03 .5629E-02 .1799E+03 .5737E-02 .1904E+03 .6175E-0 E+03 .5458E-02 .1799E+03 .5737E-02 .1904E+03 .51270E-0 E+03 .1301E-03 .1101E+031175E-03 .1121E+031270E-0 E+03 .1301E-03 .1101E+031276E-03 .1201E-03 .1310E-0	### 13	E+0	1924E-0	1903E+0	. 2224E-5	1941E+0	.2421E-0
\$\begin{align*} \begin{align*} \begi	\$\begin{align*} \begin{align*} \begi	E+0	.2709E-0				
E+02 0. E+02	E+02 0.	00	~	۳			:
E+03 - 9259E-04 .1177E+03 - 7012E-04 .1275E+03 - 9304F-0 E+03 - 1076E-03 .1515E+03 - 1299E-03 .1625E+03 - 1516E-0 E+03 - 105E-03 .1535E+03 - 1677E-03 .1916E+03 - 1516E-0 E+03 - 2159E-03 .1535E+03 - 1875E-03 .1916E+03 - 2024E-0 E+03 - 2159E-03 .1502E+03 .1300E+03 .2351E-0 E+03 .2629E-02 .1202E+03 .357E-02 .1300E+03 .2351E-0 E+03 .3944E-02 .1799E+03 .5737E-02 .1904E+03 .6175E-0 E+03 .5458E-02 .1799E+03 .5737E-02 .1904E+03 .6175E-0 E+03 .5458E-03 .1019E+03 - 1175E-03 .1055E+03 - 1270E-0 E+03 - 1302E-03 .1101E+03 - 1317E-03 .1276E-0 E+03 - 1302E-03 .1101E+03 - 1277E-03 .1276E-0 E+03 - 1302E-03 .1101E+03 - 1276E-03 .1276E-0	E+039259e-04 .1177E+037012E-04 .1275E+039304F-0 E+031076E-03 .1515E+031299E-03 .1616E+031516E-0 E+032159E-03 .1635E+031677E-03 .1916E+032024E-0 E+032159E-02 .1601E+02 .1875E-02 .1910E+03 .2351E-0 E+03 .3944E-02 .1501E+03 .3108E-02 .1597E+03 .3552E-0 E+03 .5458E-02 .1799E+03 .5737E-02 .1904E+03 .6175E-0 E+03 .5458E-02 .1799E+03 .5737E-02 .1904E+03 .6175E-0 E+03 .5458E-03 .1019E+03 .175E-03 .1055E+031310E-0 E+03 .6773E-03 .1019E+031475E-03 .1055E+031310E-0 E+03 .1310E-03 .1152E+031475E-03 .1267F+031310E-0 E+03 .1310E-03 .1152E+03 .1246E-03 .1267F+031310E-0	E+ 0	•	8992E+0	.2151E-0	99966+1	.3665E-0
E+031076E-03 -1515E+031299E-03 -1665E+031516E-031516E-031516E-031516E-031516E-031516E-031516E-032159E-031516E-031516E-032159E-032159E-031516E-032159E-031516E-	E+031076E-03 .1515E+031299E-03 .1655E+031516E-03 0.165EE-03 .1655E-03 .1655E-03 .1655E-03 .1655E-03 .2024E-0 0.2054E-03 .2159E-03 .2054E-03 .2054E-02 .1565E-02 .1505E+03 .2551E-02 .1505E+03 .4465E-02 .1506E+03 .5458E-03 .4652E-02 .1506E+03 .5458E-03 .4652E-02 .1596E+03 .5458E-03 .6475E-03 .5458E-03 .5458E-03 .5458E-03 .5458E-03 .5458E-03 .5458E-03 .1055E-03 .1256E-03 .1256E-	E+0	. 5259r-0	11776+0	.7012E-0	1275E+0	.93045-0
E+031665E-03 .1833E+031857E-03 .1916E+032024E-0 E+032159E-03 13 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	E+031665E-03 .1833E+031857E-03 .1916E+032024E-0 13 -2159E-02	E+0	.1076E-0	1515E+0	12995-0	1625E+0	. 15C6E-0
E+032159E-03	E+032159E-03	E+0	.1665E-0	18335+0	.1857E-0	1916E+0	.2024E-0
13	61 2 E+02 .1355E-02 .1202E+03 .2351E-0 E+03 .2629E-02 .1202E+03 .3100E+03 .3625E-0 E+03 .3944E-02 .150GE+03 .4462E-02 .1595E+03 .4900E-0 E+03 .5458E-02 .1799E+03 .5737E-02 .1904E+03 .6175E-0 E+03 .6773E-02 .1904E+03 .6175E-0 E+03 .6773E-02 .1904E+03 .175E-02 E+02 .1006E-03 .1019E+03 .1175E-03 .1055E+03 .1216E+03 E+03 .1300E-03 .1152E+03 .1216E+03 .1310E-0 E+03 .1302E-03 .1246E-03 .1246F-03 .1316E-0 E+03 .2367E-03 .1246F-03 .1246F-03 .1316E-0	E+0	.2159E-0				
E+03 -1355E-02 -3060E+02 -1875E-02 -1000E+03 -2351E-0 E+03 -2629E-02 -1202E+03 -3109E-02 -1390E+03 -3625E-0 E+03 -3944E-02 -1500E+03 -4462E-02 -1595E+03 -4962E-02 E+03 -5458E-02 -1799E+03 -5737E-02 -1904E+03 -6175E-0 E+03 -6773E-02 -2462E-03 -1799E+03 -5776E-02 -1904E+03 -6175E-0 E+03 -13607E-03 -1301E+03 -13175E-03 -1167E+03 -1310E-0 E+03 -1302E-03 -1167E+03 -1276E-03 -1167E+03 -1310E-0 E+03 -1302E-03 -1167E+03 -1276E-03 -1167E+03 -1310E-0	E+03	10	8				
E+03 .2629E+02 .1202E+03 .3108E+02 .1300E+03 .3625E+0 E+03 .3944E=02 .1500E+03 .4462E=02 .1595E+03 .4900E=0 E+03 .6773E=02 .1799E+03 .5737E=02 .1904E+03 .6175E=0 E+03 .6773E=04 .8562E+024762E=04 .9105E+027540E=0 E+021807E=04 .8562E+024762E=04 .9105E+027540E=0 E+031302E=03 .1101E+031377E=03 .1105E=031310E=0 E+031302E=03 .1101E+031270E=0	E+03 .2629E+02 .1202E+03 .3109E+02 .1300E+03 .3625E+0 E+03 .5458E-02 .1500E+03 .4462E-02 .1595E+03 .4960E+0 E+03 .5458E-02 .1799E+03 .5737E-02 .1904E+03 .6175E+0 E+03 .6773E+02 .24 .8762E+02 .1904E+03 .105E+027540E+0 E+02 .1808E+03 .1019E+03 .1175E+03 .1055E+03 .1270E+0 E+03 .1310E+03 .1105E+03 .1175E+03 .1121E+03 .1270E+0 E+03 .1310E+03 .1152E+03 .1156E+03 .1261E+03 .1270E+0 E+03 .1310E+03 .1152E+03 .1156E+03 .1261E+03 .1270E+0 E+03 .1310E+03 .1152E+03 .1156E+03 .1261E+03 .1270E+0		1355E-0	0+30906	18735-0	1000E+0	2351E-0
E+03 .3944E=02 .1500E+03 .4462E=02 .1595E+03 .4900E=0 E+03 .5458E=02 .1799E+03 .5737E=02 .1904E+03 .6175E=0 E+03 .6773E=02 .24 .6752E=04 .9105E+027540E=0 E+021507E=04 .0562E+024762E=04 .9105E+027540E=0 E+031302E=03 .1101E+031175E=03 .11059E+031270E=0 E+031302E=03 .1101E+031317E=03 .11657E+031310E=0 E+031302E=03 .1101E+031246E=03 .1167F+037381E=0	E+03	E+ C	2629E-0	1202E+0	3108=-0	1 30 0E+0	3625E-0
E+03	E+03	E+0	39445	1500E+0	4462E-0	1595E+0	49006-0
E+03	E+03	E+0	0-38545	1799E+0	5737E-0	1904E+0	6175E-0
62 2 - 15875-04 85625-02 - 17625-04 91056-02 - 75405-0 6402 - 10086-03 10196-03 - 11752-03 10555-03 - 12705-0 6403 - 13106-03 11016-03 - 13175-03 11216-03 - 13105-0 6403 - 13026-03 1157-03 - 12465-03 1257-03 1276-0	\$\frac{2}{\text{E}+02} = \frac{2}{\text{6}} \frac{6}{\text{6}} \frac{2}{\text{6}} \frac{1056 + 02}{\text{6}} = \frac{75405 - 0}{\text{6}} \frac{6}{\text{6}} \frac{1056 + 02}{\text{6}} = \frac{10195 - 03}{\text{6}} = \frac{1056 + 02}{\text{6}} = \frac{10195 - 03}{\text{6}} = \	9+3	67736-0				
E+021587E+04 .8562E+024762E-04 .9105E+027540E+0 E+021008E+03 .1019E+031175E+03 .1055E+031270E+0 E+031310E+03 .1101E+031247E+03 .1162E+031310E+0 E+031302E+03 .1152E+03 .125E+03 .1267E+03 .7310E+0	E+021587E-04 .8562E+024762E-04 .9105E+027540E-0 E+021008E-03 .1019E+031175E-03 .1055E+031270E-0 E+031310E-03 .1101E+031317E-03 .1121E+031310E-0 E+031302E-03 .1152E+031246E-93 .1267F+037361E-0 E+034607E-04 .1354E+931422-04 .144111 .2351-1	95	2		**		
E+62 - 1006E-03 - 1019E+03 - 1175E-03 - 1055E+03 - 1270E-0 E+63 - 1410E-03 - 1101E+03 - 1317E+03 - 1121E+03 - 1310E-0 E+03 - 1402E-03 - 1152E+03 - 1246E-03 - 1267E+03 - 7381E-0 E+03 - 1402E-03 - 1152E+03 - 1246E-03 - 1267E-0 - 7381E-0	E+031006E-03 .1019E+031175E-03 .1055E+031270E-0 E+031310E-03 .1101E+031317E-03 .1121E+031310E-0 E+031302E-03 .1152E+031246E-93 .1267F+0)7361E-0 E+034603E-04 .1354E+031422F-04 .1447-143 .23531	1	15A7F-0	8562F+0	. 4.762E-0	91056+0	.7540E-0
E+031310E+03 .1101E+031317E+03 .1121E+031310E+0 E+031302E+03 .1152E+031246E+03 .1267E+037361E+0	E+83 - 1310E+03 .1101E+03 - 1317E+03 .1121E+03 - 1310E+0 E+03 - 1302E+03 .1152E+03 - 1246E+93 .1267F+0) - 7361E+0 E+03 - 14607E+04 .1354E+93 - 1427E+94 .1447+14 .2351+1	4 10	1008E-0	10196+0	.11755-0	10555+0	.1270E-0
E+03 +-1302E+03 -1152E+031246E+03 -1267E+037361E+0	E+03 - 1302E-03 .1152F+03 - 1246E-03 .1267F+03 - 1381E+0 E+03 - 14607E-04 .1354E+03 - 1422T-04 .1447-11 .23531	4	-1310F-0	11015+0	13175-0	1121E+0	.1310E-0
			1 LC CC +	1152540	0-35761	12575+0	74016-0
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.1626E+03 .1673E-03 .1823E+03 .3492E-03 .2082E+03 .4929E-03	.1053E+83 .5426E-82 .1155E+03 .7604E-02 .1256E+03 .7604E-02 .1445E+03 .3406E-02 .1445E+03 .3158E-02 .1660E+03 .2158E-01	.4677E+02 .7937E-04 .1109E+03 .2736E-03 .1262E+03 .5238E-03 .1375E+03 .5637E-03 .1375E+03 .5337E-03 .176E+03 .3710E-03	.9319E+02 .9862E-03 .1086E+03 .1815E-01 .1343E+03 .2564E-01 .1351E+03 .2547E-01 .1551E+03 .2547E-01 .1755E+03 .1558E-01	.9023c+02 .6799c-03 .1040c+03 .96c2c-03 .1240c+03 .95c3c-03 .1251c+03 .7674c-03 .1351c+03 .4294c-03 .14751c+03 .980c-04 .1651c+03 .6401c-03	1092E+034622E-0 1196E+035017E-0 1346E+034622E-0 1560E+031633E-0 1778E+031655E-0 1994E+031677E+0	.95246-02 -44096-03 .10366-05 .31666-05 .11216-03 .40866-03 .12506-03 .12836-03 .13846-03 .2836-03 .16236-03 .14756-03 .17926+03 .22936-02
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- 530.00 - 0. 1	15+03 .550u5-01 9E+03 .3560E+01 4E+03 .1040E+01 4E+031100E+01 2E+025048E+01 6E+036175E+01	E+03 -4223E+0 E+03 -4223E+0 1-21122E+0 1-2122E+0 1-2122E+0 1-2122E+0 1-2122E+0 1-2122E+0 1-2122E+0 1-2122	######################################	3E+02 . 6369E-02 3E+03 . 42:1E-62 1E+03 . 12971E-03 8E+03 . 2457E-02 8E+02 - 9661E+00 3E+03 - 1074E+01 3E+03 - 1074E+01 3E+03 - 4351E+0 3E+03 - 4351E+0 6E+03 . 5373E+0 6E+03 . 5373E+0 6E+03 . 53749E+0 9E+03 . 53749E+0	1E+02 .1239E+0) 9E+02 .1162E+00 9E+02 .9076E-01 5E+03 .5084E-01 4E+03 .6024E-03 5E+032892E-01
- 35546E-01 - 12946E-01 - 12940E-01 - 1294	./14-12-01 .109 .4763E-01 .160 .4203E-01 .191 .4203E-01 .602 .58845E-01 .899	. 29695.01. 11919. 1299. 29695. 1999	100505401 .0000 1007505401 .0000 1115056401 .1000 1115056401 .1000 1115056401 .1000 110906401 .1000 150056401 .1000	7027E-02 .595 -4266E-02 .150 -4266E-02 .150 1707E-02 .179 -3907E-02 .179 -3907E-01 .105 1046E+01 .105 -1046E+01 .105 -1066E+01 .105 -	11575450 .731 11575450 .799 96136-01 .867 68676-01 .939 39354-01 .198 59136-01 .134
10000000000000000000000000000000000000	. 3980E+0 . 1294E+0 . 1501E+0 . 1843E+0 . 5995E+0 . 14080+0	11035.4 140085.4 12995.4 10996.4 12896.4 12896.4 114636.4 119376.4 119376.4 119376.4 119376.4	. 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**************************************	31 7072E+02 773E+02 6473E+02 9157E+02 9887E+02 1891E+03 1891E+03
	. 5 35 CE - 0 . 5 6 DE - 0 . 16 DE - 0 . 16 DE - 0 . 17 FE - 0 . 75 FE - 0 . 77 FE - 0	- 56472 - 400667 - 101667 - 101667 - 500667 - 851967 - 85196	11050 F + 11050	. 5817E- . 5950 XE- . 1050 XE-	1305E+0 1211E+0 1211E+0 1026E+0 *4859E+0 1406E+0 -1606E+0

	26667E+0	2, 245.6	2 3401E+U	7 - 1182540	03 32735+00	3 .3114E+0	3 .4950E+0	3 .4551E+0	04000	10175401	16496+3	0 .1657E+0	0 .1263E+0	0 .65346+0	0 .2032E+0		22170E-0	3 16368-0	031108E-01	36600E-0	94 3 300 4	0+36561. 7	04344E6	3 .3467E+0	03 .2481E+01	3 .1956€+0	3 .17537+0		0-30202- 2	02 1631E-01	31625E-0	3 1418E-0	31221t-U				03 .1386E-04	16246-0	3 .2772E-0	3 .3446E-0	3 .3960E-0	2 24ecr		01 0.		2 .1446E-0	03 .8515E-02	3 .53475-6	3 .3960E-0	33564E-0		01 6.			
	.5378E+	. 7446E+	. 6950E+	- HC 5 DI •	131364 131364	1527E+	-1808E+	-1998E+		143162. 0	43434E4	4807E+	.5481E+	.6334E+	.7140E+		.6377E+	111754	1 .1588E+	.19975		* 11 % C 11 C	10066	12685	1 .14205+	•1655E+	.1914E+		. K.075F+	1 .9188E+	.12136+	.1520E+	.1811E+	-			11975+	14326	.1569E+	.1690E+	.1321E+	• 1923E+	•	1.0002+	,	4 3 5 5 1 E F	1 135 BE+	.1484E+	.1720E+	.1948E+		.10008+		G	
	7202E+0	- 5469E+E	3928E+0	D+3/247*-		15975+0	0+3064 to	0+36644.	80	2.90654	16.02540	16896+0	14825+0	.94825+0	.3586E+0	٤	0-1220-	1806E-0	1290E-0	7220E-0	4	11924E+U	24 57 74 F	36867+0	.28155+0	.2076E+C	.1797E+0	•	5 - 24 N2 F= 0	-11890E-D	16955-0	1494E-0	1293E-D		.16505+0	•	0.39665-0	1 3555	.2375g-0	.3307E-0	.3902E-0	. 5 960E+U	1 2 20 20 4	0	7	16245-0	110705.0	0-36119*	.1782E-0	2179E-0	•		1	**************************************	
_	46546+0	6794E+0	8457E+0	3928E+0	111225403	1461E+D	17125+0	1960E+0	22	.2625E+80	0+30545	1275F	52336+3	59356+0	0435469		SO DEFT	96185+0	.14196+03	19275+0	22	5029E+8		1140F+0		1581E+0	1852E+0	ţ	17	.9073E+02	1111E+0	1405E+0	1705E+0	1999E+0	. 2000E+03	23	.11575+03	1275240	5096+0	16535+0	1778+0	1900E+0	30000	.1462E+00	19	8726E+0	. 104 UE + U.	14065+0	1634E+0	1888E+0	•	.1500E+00	2	.2002E+03	
7	.7569E+0	.684 46+0	.44315+0	. 2898E+B	166	. 111 RF+D	35325+0	870E+0	-4	1275E+0	7809E+0	14CBC+U	1570E+0	1131E+0	.46612+00	1594E+0	1 20.400	20156-0	1430E-01	74 3E-0	-4	1385E+0	0135540	15765	31735+0	2254E+0	.1829E+01	17616+0	1 24 6 75 - 0	196.8F-01	.1763E-0	.1552E-D	13638-0	.1157E-0	.4410E+01	-		15846-0	. 2020£-03	2990E-0	3624E-0	3-960E-0	19415-0-1		+	1644E-0	1307E-0	£337E-0.	3366E-0	1188E-02	.4356E-D	٠,	-	.7028E+00	
4 2 0	40256+0	8438 209	19405+0	94356+0	1082E+0	1100c+U	1500C+B		232	2262E+0	32716+0	3491640	5042F+0	5728E+0	.6590E+00	726 8E+B	6635	18255	1293E+83	1764E+0	234	5028E+0	40464	101054	121 AF 6 D	1516E+0	.1763E+03	0 + 32 0 0 2	235	.4013E+UC	1014E+0	1308E+0.	16142+0	1902E+0	20 + 30 0 7 *	237	9062E+	1244E+0	2 9	1611E+0	1738E+0	1859E+0	19595+6.	.5978E-01	239	797 BE+ 0	16666	13575+0	1547E+8	.18116+03	2000E+0	.6022E-01	242	.6029E+0?	

and therefore the contraction of the contraction of

.1050E+01	3538E-03 3534E-03 3214E-03 2695E-03 1297E-13	912F-9 651E-0 867E-0 032E-0 606E-0	. 1222E-01 . 12864E-01 . 2266E-01 . 2364E-01 . 2364E-01 . 3368E-01	2056E-01 1737E-01 8782E-02 9980E-03	2000 2000 2000 2000 2000 2000 2000 200	. 59669E-03 . 44311E-03 . 4311E-03 . 4356E-03 . 1756E-03 . 1756E-03 . 1756E-03 . 1756E-03 . 1756E-03
.1200E+03 .1802E+03	.9184E+02 .1101E+03 .1259E+03 .1419E+03 .1546E+03	70 10 10 10 10 10 10 10 10 10 10 10 10 10	.8519E+02 .139E+02 .1139E+03 .129E+03 .1745E+03 .1745E+03	.1002E+00 .1200E+00 .1263E+00 .1341E+00	44444444444444444444444444444444444444	
10505+01 10505+01 12055+01 1205+01	-34125-03 -34135-03 -24145-03 -24155-03 -14975-03	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.10225-01 .16835-01 .2365-01 .2365-01 .2145-01 .16745-01		50122 50122 5023 503 503 503 503 503 503 503 50	
.100% = 03 .1602E + 03 .2300E + 03 .2006E + 03	. 666 E + 0 Z	76 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		16 .30335-01 .11475-00 .12605-00 .13595-00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
. 1053E+01 . 1055E+01 . 1055E+01 . 1202E+01 . 1505E+01	- 3412E-03 - 373E-03 - 3453E-03 - 3654E-03 - 2495E-03 - 1876E-03	1 711E-0 912E-0 390E-0 596E-0 225E-0 104E-0	. 7014E-02 . 2523E-01 . 2365E-01 . 2365E-01 . 2265E-01 . 1042E-01	2056E-0 2056E-0 1577E-0 5569E-0		. 5569E-03 . 5569
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	10346-1	1753E-6	1514E-1	7371E-0	. 1984E-03	7570E-9	- C	2017E-0	20-30141-02-	14835-0	- 1403E-6		5833E-0	1905E-0	.1925E-0	.5119E-0	.7302E-0	. 1115E-0	. 8194E-0	.7500E-0.	. 5913E-U	10125-0	. 1190E		0-30665	3-10055	2287E-0	83376-0	69116-0	43965-0	. 2040E-03	11885-0	1	1317E-8	13976-1	13975-0	2954E-0	30145-0	.2894E-01	2315E-0	153 7E-0	70865-0	7984E-0	4	- 43566-01	3941F-0	.3208E-0	.1762E-0	• E139E-0	.7921E-U	25105-0	2451E-0	23525-0	2233E-0	16216-0	.6522E-0	65226-04	
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.191/1:43	8886E+021428E-0 1277E+031511E-0 1533E+031511E-0 1790E+032247E-0 2007E+033548E-0 2007E+03499CE-0 1202E+01 .1074E-0 1202E+00 .1093E-0 1308E+00 .9145E-0 1308E+00 .9145E-0 1308E+00 .9145E-0 1308E+00 .9145E-0	.9594E:027555E=03 .1597E+032976E=03 .1612E+032976E=04 .1612E+031948E=03 .1016E+031750E=03 .2000E+031750E=02 .7804E=01 .1468E=02 .122E+00 .1219E=02 .1235E+00 .4167E=03 .1373E+00 0 .1373E+00 0	99246E402 - 110336E402 - 12036E403 - 12036E403 - 12036E403 - 12036E403 - 12036E403 - 12036E400 - 12036
75642-03 75642-03 72113-03 20525-03 90545-04 90546-04	6.21675-0 -15675-0 -15675-0 -156915-0 -156915-0 -156915-0 -10545-0 -10555-0	- 25435-03 - 32783-03 - 11936-03 - 11936-03 - 1367-02 - 13496-02 - 1239-02 - 1239-03 - 1567-03 - 1567-03	
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.1957E+03 .997E+03 .999EE-01 .1126E+00 .1126E+00 .1416E+00 .1499E+00	253 266 273 273 273 273 273 273 273 273	. 1094 MEF + 02 . 104 MEF + 03 . 150 2E + 03 . 150 2E + 03 . 167 0E + 03 . 167 0E + 03 . 102 2E E + 03 . 135 3E + 03 . 141 25 3E + 03 . 141 7E + 03	200 200 200 200 200 200 200 200 200 200

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0 + 30 CE 6	2843E-0	9805E+0	26045-0	1032E+0	2326E-0
1090E+8	2068E-0	11396+0	18296-8	1196E+1	1670E-0
12425+0	14516-0	12916+0	13356-1	1339E+8	1153E-0
13995+13	.91456-03	.1441E+03	.8946E-03	14875+93	.7555E-03
1533E+0	6759E-1	15696+0	59645-0	1620E+0	4771E-0
1678E+0	3976E-0	1718E+0	2982E-0	1740E+0	2785E-U
1759E+0	2783E-0	1776E+0	2783E-0.	1915E+0	. 4940
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267	1 0 0 0 0	32 705 48	1815+0	86225+0	.1149E+0
139664	0.5077	2000		OAKSE+0	13C4F+0
900000	. 11105-0	1100510	T-MANA.	1135E+0	. 8032E-0
1041640	0140404	0436464	67475-0	1238E+0	.6104E-0
11/25	52626 - 0	1306640	- 441.8E- D	1336E+0	36145-0
	35705	SOAFF.	1 4665-0	14215+0	.4819E-0
20000000000000000000000000000000000000	24405-0	1485543	A 0 32F - 0	1526E+0	.4015E-0
7943F44T	101	1601E+03	12955-01	.1643E+03	.1365E-03
049404	1365F-0	17416+0	1285=-0	1786E+0	9032E-0
1 A L OF + 0	4319F-0	1900E+0	32135-0	1935E+0	9332E-0
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11515+00	7171F-62	.1221E+00	.3 384E	.1282E+00	84E-0
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4196E+0	. 2675E-0	84996+0	.20365-0	8722E+0	14776-0
96685+0	7585E-0	93756+0	.2196E-0	9717E+0	39925-0
0+3605¢	6786E-0	10196+0	11585-0	1044E+0	1497E-0
10695+0	1816E-0	1100E+0	2176E-0	1132E+0	25555-0
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1250E+0	3253E-0	1280E+0	3373E-0	1319E+0	3513E-0
1360E+0	3553E-0	1400E+0	35775-0	14395+0	3573E-U
1483E+0	35335-0	1533E+0	34335-0	15795+0	32346-0
16125+0	3054E-8	1651E+0	20102	16636+0	11111111
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110100	18845	1150E+0	1730E-0	1201E+0	.1511E-0
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13255+0	.7555E-0	13516+0	.57655-0	13716+0	.4374E-0
1396E+0	.3181E-0	1425E+0	.1 590E- 0	1+58E+0	.3976E-0
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4778E+0	4930c-0	3961E+0	.34195-0	9176E+0	.2385E-0
9359E+0	1352E-0	95785+0	.3976E-0	4363E+0	-1/50E-U
1012E+0	.2704E-4	10396+0	. 41355-0	10/16+0	0-10100
11016+6	.5169E-0	1121E, 0	. 54U6E-U	1 10 0 14	25795-0
1196540	.4612E-U	1232E+6	0-10-00-0	1289540	2 TRAFF-D
131050	-3228-0	1343640	10705.	10001	1756F-0
1451696	******	15405+0	71575-1	16496+83	7157E-02
16985+03	E362E-02	17665+03	3' 755-02	1834E+0	.3976E-0
1 4 3 6 6 1	•	1998E+0	15902-0		
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11496+1	24356-0	1165E+0	163FE-0	12315+8	.55895-0
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.4918E+00 .4918E+00 .5977E+00 .7473E+00	.2201E+00 .3425E+00 .3425E+00 .3703E+00 .4602E+00 .4605E+00 .4507E+00 .5270E+00 .5770E+00	.2468E+00 .3168E+00 .3531E+00 .46334EF+00 .4680E+00 .5251E+00 .5251E+00 .5409E+00 .5409E+00	• 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 3332 . 3332 . 44232 . 55450 . 55450 . 55450 . 55450 . 55470 . 55470 . 67876 . 67876 . 6176 . 617	.7002E+00 .9196E+00 .1020E+01 .1299E+01 .1599E+01 .1513E+01 .1701E+01
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3356-02 1356-01 28696-01 46416-01 69526-01	1269E-0 4711E-0 3513E-0 13712E-0 1717E-0 1764E-0 2029E-0 2029E-0 2029E-0 469E-0	3452E-01 2817E-01 1746E-01 1389E-02 .1151E-01 .1676E-01 2778E-02 2778E-02	1852E-02 1277E-02 3593E-03 110E-02 1429E-02 1461E-02 1461E-02 1996E-03 1054E-03	.93225 .65485 .15876-02 .12386-01 .12386-01 .24436-03 .39526-03 .29576-01 .29576-01	- 1310E-01 - 1310E-01 - 1296E-01 - 1296E-01 - 1306F-01 - 1306F-01 - 1306F-01
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会議の前をおえてはない。

1 - Carlotte Comment

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.4662E-01
.6474E-01
.7649E-01
.7549E-01
.7516E-01
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.2849E-01
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..1964E-01
..7937E-02
..5579E-02
..5756E-02
..5766E-01
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.5753E+00
.7108E+00
.8908E+00
.1075E+01
.1207E+01
  -.1394E-62
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.2746E+00
.3252E+00
.4754E+00
.4754E+00
.6002C+00
                                                                                 .4933E+02
.1059E+02
.1159E+03
.1159E+03
.1273E+03
.1273E+03
.1319E+03
.1571E+03
.1574E+03
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. 10346E+03
. 1127E+03
. 1127E+03
. 1205E+03
. 1205E+03
. 1432E+03
. 1502E+03
. 1502E+03
. 1745E+03
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.10445E+03
.11492E+03
.12598E+03
.15698E+03
.1561E+03
    .1675c+03
.1860E+03
.15942-62
-.95625-02
-.19725-01
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.7376E-01
.7369E-01
.7369E-01
.6633E-01
.5187E-01
.2510E-01
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.3963E-01
.5996E-01
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-.3254c-01
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-1746E+03
-1001E+03
-4684E+02
-9163E+02
-1058E+02
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• 8615E + 0.2

• 1941E + 0.2

• 1107E + 0.3

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• 1107E + 0.3

• 1252E + 0.3

• 1354E + 0.3

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• 1467E + 0.3

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• 1667E + 0.3
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- 0392E+02

- 1010E+03

- 112EE+03

- 1158E+03

- 1256E+03

- 135EE+03

- 135EE+03

- 1566E+03

- 1566E+03

- 1566E+03

- 1689E+03

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.4984E+02
.1117E+03
.1231E+03
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.1743E+03
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1511E+00

2579E+00

3029E+30

43551E+00

4378E+00

5735E+00
    - 6175E-02
- 6175E-02
- 1633E-01
- 2311E-01
- 7318E-01
- 7388E-01
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- 7488E-01
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.2776E-01
.8556E-01
.5556E-01
.5167E-01
.2877E-01
.1647E-02
.2877E-02
.2976E-02
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- 2778E-01
- 5357E-01
- 3457E-01
- 1405E-01
- 2461E-01
- 2471E-02
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- 2471E-01
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-.15788E-01
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-.3175E-02
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*5235E+00
•60$0E+00
•7739E+00
•1137E+00
•1130E+01
    . 17386E+03

. 2386E+03

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. 1106E+03

. 1116E+03

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.69926 .115566 .125666 .125566 .1357566 .14516660 .1459660 .145860 .145860 .145860 .176660 .176660 .176660	.6996E-01 .996E-01 .1159E-00 .1261E+00 .1364E-00 .1450E+00 .1696E+00	6980F-10 11118F-10 1288CF-10 1288CF-10 1473F-10 1693E-10 1997E-10	. 59995+00 . 6760E+00 . 760E+00 . 1000E+01 . 130E+01 . 1449E+01 . 1602E+01 . 1602E+01	.5027E+00 .7325E+00 .8197E+00 .1015E+01 .1119E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01 .1206E+01
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.12256+01 1 6090E+00 6129E+00 6567E+00 7303E+00 6398E+00 1003E+01 1003E+01	20012E+0 00012E+0 00012E+0 00012E+0 00012E+0 00012E+0 00012E+0 00012E+0 00012E+0	36925E+0 6925E+0 7365E+0 7365E+0 6219E+0 9532E+0 1007E+0	-1734E-01 -1845E-01 -2012E-01 -2012E-01 -2016E-01 -1873E-01 -1819E-01 -1819E-01 -1147E-01	-1663E-01 -1675E-01 -1346E-01 -1954E-01 -1964E-01 -1696E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-01 -1579E-02 -1579E-02
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-.1948E-01
-.7948E-01
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-.4517E-02
-.1940E-01
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.1054E-01
.1531E-01
.1431E-01
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.49766+00
.60176+00
.71146+00
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.1609E+02
.1872E+02
.2339E+02
.3011E+02
.3471E+02
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.15456+02
.19276+02
.23616+02
.32326+02
.36566+02
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.4607E+00
.5902E+00
.5907E+00
.12636+02
.16756+02
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.31346+02
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-657596-02
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-33035-02
-19165-02
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-15975-01
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-37495-02
-26745-02
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-.3134E-02
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.24515-01
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.1656F+02
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.14066+02
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..5169E-02
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- 1238E-01
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.1292E-01
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.1261E-01
.1717E-01
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-.3114E-01
-.2667E-01
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• 2044E-01

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.9968E+02
.1287E+03
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.1293E+82
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•127F+62
•1440F+02
  -2769E-02
-2191E-02
-5960E-03
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